Use Case 4.1: Identifying related works

Example story: As a scholar, I would like to find all the images associated with various instances of a work sorted by time, so that I can see how the depictions of or illustrations in a work have changed over time.

Example story (GloPAD specific): As a scholar, I would like to find all costume photographs and scene illustrations for various stagings and performances of the plays of a particular author or the operas of a particular composer, so that I can see how the visual look of performances of the plays or operas have changed over time.

The essence of this use case is making use of complex graph relationships via queries or patterns (rather than direct connections) to allow discovery that would not be possible without the semantics of different relationships between items and types of items included in the graph. User stories and demonstrations will be somewhat tied to available data because detailed information and relationships will not be available for all resources.

Out of scope: n/a

Potential Demonstrations

A. Given an author or composer, find images associated with the works of that author or composer. (Rob: e.g. select ?z where (?x a Person ; ?x creator ?y ; ?y isDepictedby ?z)

B. Results that separate out classes of works: images associated with plays rather than novels or short stories; composed operas rather than songs or instrumental pieces. (Rob: Not really multi-level: ?x a Work ; ?x a Play ; ?x depictedBy ?y)

C. DavidW: if data available extend A to an additional axes such as sorting by geographic location of a performance or by the native language in the performance location so that one can see if en English La Boheme looks different from a German La Boheme, etc.

Data Sources

- Catalog records
- GloPAD (http://www.glopad.org/pi/en/) database @ Cornell
- Consider Jean-Baptiste Lully collection at Stanford
- Consider image collections at all institutions:
    - Stanford – Yes but somewhat uneven data consistency
    - Harvard – Image collection are fairly rich fodder for entity extraction -- Paolo has been testing
    - Cornell – several possibilities including: photo collections which have fairly decent authority work, but novel discovery based on that may not have great authority work; Hip-hop collection is getting lots of local authority work; Divine Comedy illustration archive

Ontology Requirements

- Ability to model appropriate relationships. For example, in the GloPAD case the fact that a play as a work is related to a performance of the play, which is then related to the images

Engineering Work

- Translation of GloPAD data into LD compatible with LD4L ontology, and then development of appropriate multi-level queries
- Understanding of Works and Instances in catalog and GloPAD data
- UI challenges in presenting an interface that allows user to specify or "knows" that the user is interested in specific things like costumes

Who will do what?

- Cornell is interested in taking this on but it's not the highest priority

Discussion

- Does this generalize to other sources besides Glopad? Manuscript materials? Darren comments on 2 interesting facets: 1. navigating ontology hierarchies (up) to determine related items, and 2. if there are many instances of a concept or class or event
- How does this influence cataloging practice? If encourage additional tagging then perhaps recast as a use case for a cataloguer with the discovery needs of this work in mind -- see what coverage is already there so know it has unique value. Could be applied to persons, not just works -- bring in additional information about candidates for authorities to link to a bibliographic record