Information science and Cultural Heritage
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GUIDELINES for A LODLAM PROJECT

Students are asked to create structured data starting from an idea and related items, and to document their work in a report (preferably a Web page), including all the files they have produced.

Study of the domain

Idea
The requirement is to focus on an idea, such as a notable person, a significant place, a concept, a historical event or a special date.
Items
The task is to select at least 10 different items related to the idea, by mixing objects: archival documents; bibliographic records; artefacts (photographs, maps, sculptures, buildings, manuscripts, sigils, etc.). One of the collected items must be a full-text document.

Knowledge organization: elaborate models

Metadata analysis
The task is to identify metadata standards (content/structure) have been used by the institutions holding them.
Theoretical model
The activity is to define all the features of the selected items (natural language), starting from the original description provided by cultural heritage institutions, adding other relevant information, including authority control and subjecting/classifications information.
Conceptual model
Create the formal representation of your model. A conceptual model must be created by reusing existing schemas, vocabularies, and ontologies (RDF/RDFS/OWL/SKOS; DC, DCTerms, FRBR, EDM, RDA, OAD, EAC-CPF, etc.). Terms of the theoretical model must be essentially refactored with terms taken from existing models.
In order to express the conceptualization activity, a graphical representation of the formalization (e.g. with graffoo <https://esspuntato.it/graffoo/>, the graphical framework for OWL ontologies) must be produced.

Knowledge representation: create data

Students are asked to **produce data**:

- a collection of .csv files (one table for item) with the full description of 10 cultural heritage items by reusing the standard and putting the items in dialogue (relationships). Links to other related items or entities must also be included.
- a XML/TEI document (a sample if too long)
- a XML to HTML transformation (python and/or XSLT)
- a XML/TEI to RDF transformation (python)
- a RDF dataset for the whole set of items, where .csv data are transformed in RDF through python (according to your ontology)