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Data Sematics for Arts

DESIGN: Identification of Requirements and Definition of Specifications

1. **Identification of the target:**

* Digital Libraries and Archives:

offer a wide and diverse collection of novels including both classic, modern and bestselling works.

* Events:

offer to the public the possibility of new experiences not only related to books, but also related to interaction with the organization of events of various kinds.

1. **Identification of annotation objectives:**

* Metadata:

for contacts and service information to facilitate communication with the library.

* Processable Elements:
  + Library: Books, Events, Contacts
  + Users: Teachers, Students, Generic Reader
  + Relationships:
    1. Connection between user and library (where user is enrolled in the library)
    2. Connection between user and event (where user can join)
    3. Connection between user and book (user can borrow)
    4. Connection between event and book (book can be presented)

1. **Analysis of ontologies and vocabularies available on the Web:**

Existing Ontologies:

* Schema.org:

for a complete description of the elements of the website

* Dublin Core:

for the description of general resources, such as books

* Event Ontology:

to describe events and activities

1. **Choosing the available ontologies and vocabularies:**

Primary Ontologies:

* Schema.org:

for general annotation (e.g., ‘shema:Person’, ‘schema:Event’, ‘schema:CreativeWork’)

* Dublin Core:

for book descriptions, including fields such as title, author, publication date, category, etc.

* Event Ontology:

to structure event information, covering fields such as event name, date, location, and description

1. **Identification of any content requiring new ontology or extension:**

* **Book Reviews &** Ratings:

If not fully covered by Schema.org, you may need to extend this ontology.

* **Specific library services:**

such as consulting services, interlibrary loan, and technical support that may need new definitions.