Build a SPARQL endpoint using real data related to cultural heritage

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ABSTRACT

The Semantic Web is a web of data. There is lots of data we all use every day, and it is not part of the web because data is controlled by applications, and each application keeps it to itself. The Semantic Web provides a common framework that allows data to be shared and reused across application, enterprise, and community boundaries using a common formats for integration and combination of data drawn from diverse sources and recording how the data relates to real world objects.

SPARQL (SPARQL Protocol and RDF(Resource Description Framework) Query Language) is the query language of the Semantic Web executed against datasets based on a RDF data model and SPARQL endpoint represents a machine-friendly interface towards a knowledge base. This project work aims to implement a SPARQL endpoint based on real data related to cultural heritage that accepts queries and returns results via HTTP (JSON, XML,RDF, HTML formats).
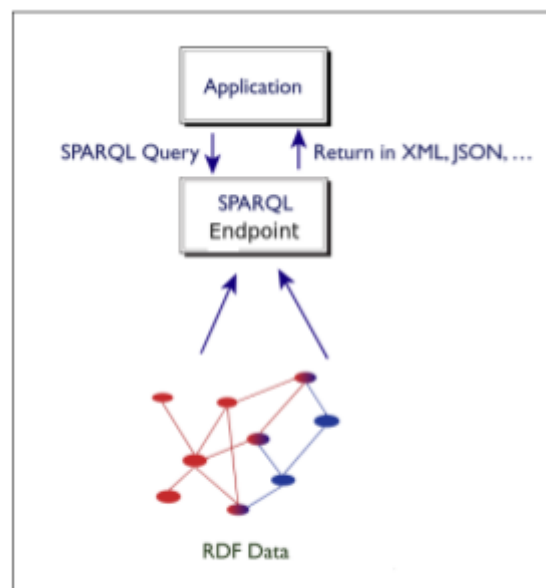
Figure 1: SPARQL endpoint schema