CLARIN-DSS "Dutch Ships and Sailors"

DELIVERABLE D5: INFRASTRUCTURE SET UP AND TESTED

Author:

Victor de Boer (VU Amsterdam)

Deliverable type: SOFTWARE

Version	Date	Author	Description
0.1	26-03-2013	Victor de Boer	First version
0.2	8-4-2014	Victor de Boer	First version of this document version
0.3	15-4-2014	Victor de Boer	Second version, includes triple store @ Huygens

This deliverable describes the infrastructure first set up at VU Amsterdam and transferred to Huygens ING.

CLIOPATRIA TRIPLE STORE @ HUYGENS

The Infrastructure is an instance of the ClioPatria triple store (http://cliopatria.swi-prolog.org). It is installed on a Web accessible server at Huygens ING. The instance is running at the URI http://dutchshipasandsailors.nl/data.

By browsing to that URI, one accesses the ClioPatria user interface to the DSS data, which allows one to browse the data. One way to start is by browsing the RDF Graphs loaded. By selecting a graph, one can then click through to see basic statistics or download the graphs in multiple formats. One can also use the search field in the top-right corner to search for resources with matching labels. The search field has semantic auto-completion that allows to select specific search terms. The screenshot below shows the welcome page.

For more complex queries, we have a number of interfaces to the SPARQL endpoint (For example the great YASGUI). On the DSS Queries page, we have listed a number of interesting example queries at http://dutchshipasandsailors.nl/datadss_queries Lastly, the provenance of the data can be visualized using provoviz.

FIG 1: SCREENSHOT OF THE INFRASTRUCTURE

CLIOPATRIA TRIPLE STORE @ HUYGENS ING

A clone of the Cliopatria triple store is running at VU Amsterdam. This server acts as a backup server and for expanding experiments. The server is located at http://semanticweb.cs.vu.nl/dss/

PURL REDIRECTS AND CONTENT NEGOTIATION

http://PURL.org provides URI redirection services often used for Linked Data projects. In the DSS case, all URIs are PURL URIs which redirect to a local view of that resource on the Huygens version of the triple stores. ClioPatria has a module that allows Linked-Data compliant responses. If RDF data in XML, Json, Turtle or other formats is requested in the HTTP request, Cliopatria responds with the correct format. If HTML is requested, the response is the human-readable Cliopatria page.