

Interlinked authorities data in a globalized cataloguing environment

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Abstract

Panteion University Library has developed POLARIS (Panteion Open Linked AuthorityS), which is a webification of Subject Headings of Panteion Library, focusing on Social Sciences, linking to LSCH (<http://library.panteion.gr/polaris/>).

Application's Goal

In the globalized cataloguing environment, the vision would be the interlinking of subject headings data combined with the treasure of any national language. With the aspiration to introduce itself in the linked data environment and to make an initial step towards the communication between Greek academic libraries, Panteion University Library has developed POLARIS (Panteion Open Linked AuthorityS).

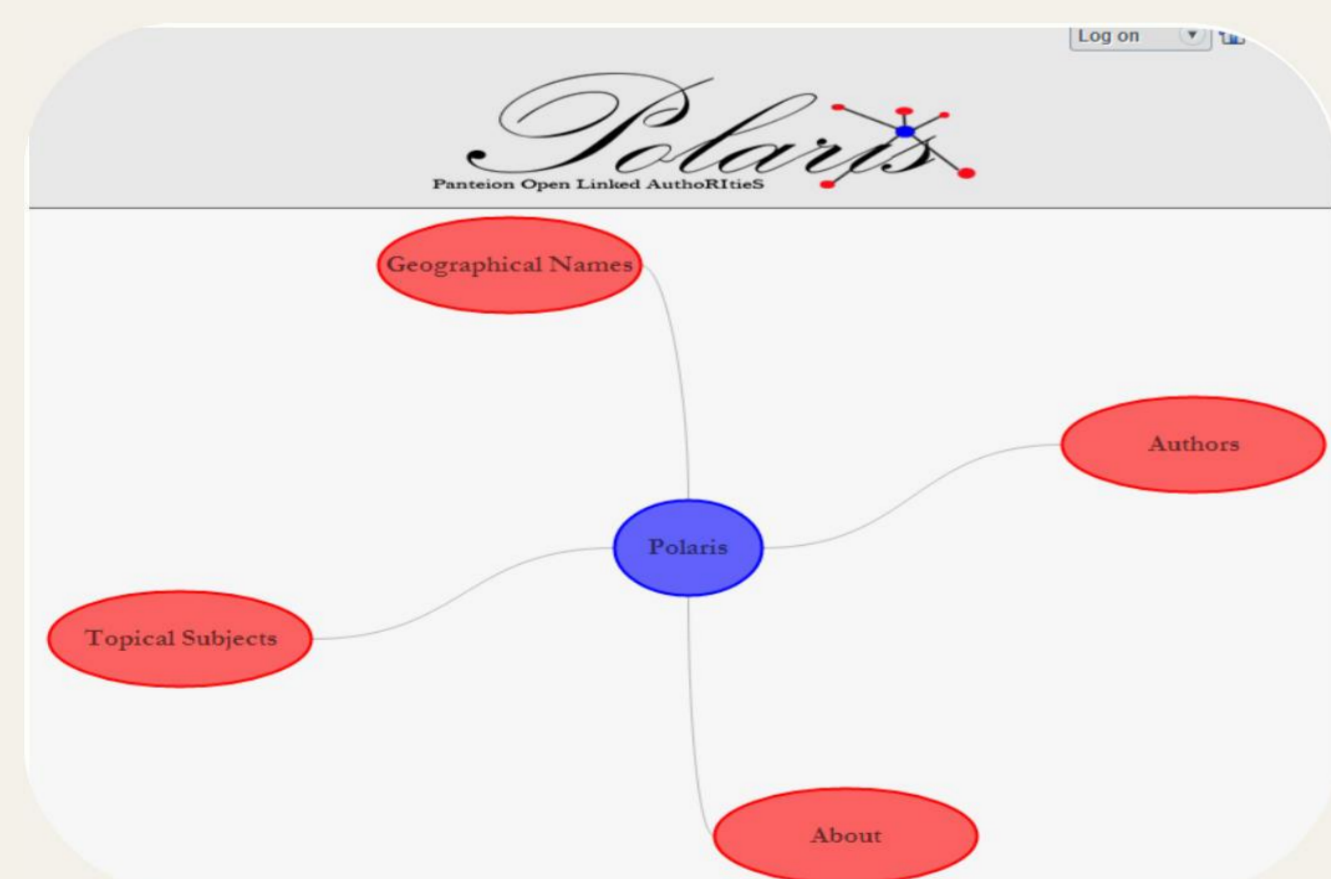
The proposed Web based application facilitates:

- library's personnel to detect any equivalencies between two authority files and untwine any disambiguation
 - the uniformity of subject indexing among Greek cataloguers regarding the subject headings of social sciences
 - cataloguers' work through the visualization that offers
 - librarians' consistency, efficiency and productivity
 - the dissertation submission in library's repository, acting as a subject recommendation system
- POLARIS is based on a bidirectional relationship with the user. Users can:
- consult it regarding to authorities interconnections and their full UNIMARC records
 - make suggestions on the terminology used for Subject Heading of the selected record and edit it according to his needs.

Content

Polaris is on an ongoing enrichment process. Currently the application includes:

- 5128 Geographical Names
- 12264 Topical Subjects
- 46657 Authors



Presentation of the application

Searching

Polaris in the back-end, communicates with a database, which contains a large part of the authority records of Panteion University, as well as their associations. This communication provides the ability to users to search and acquire access freely to most authority records, existing in Panteion University.

There are two ways for someone to find a record. The first way is through the home page of Polaris, in where exist the Subject Headings of all records (separated in pages). The second way is through a form, by means of which a user can make queries, whose returned results is any record, that its Subject Heading (as it is or translated in English) matches with the query. Thus, in both ways user browse all or the resulted Subject Headings and choose the one, for which he wants to use any of the functionalities, that will be described in next three sections.

View and edit the record

After a user finds and selects the desired authority record, through the above procedure, he is sent to the tab "Details", in which he has four choices. Firstly, he can view the UNIMARC representation of the record. Moreover, he has the opportunity to download and save a pdf file of this representation in his computer. Furthermore, he can print a copy of this representation. Last but not least, there provided hyperlinks to the corresponding record in the Library of Congress (if such record exists). Thereby, interoperability and interconnection are achieved, between data of Panteion University and the Library of Congress.

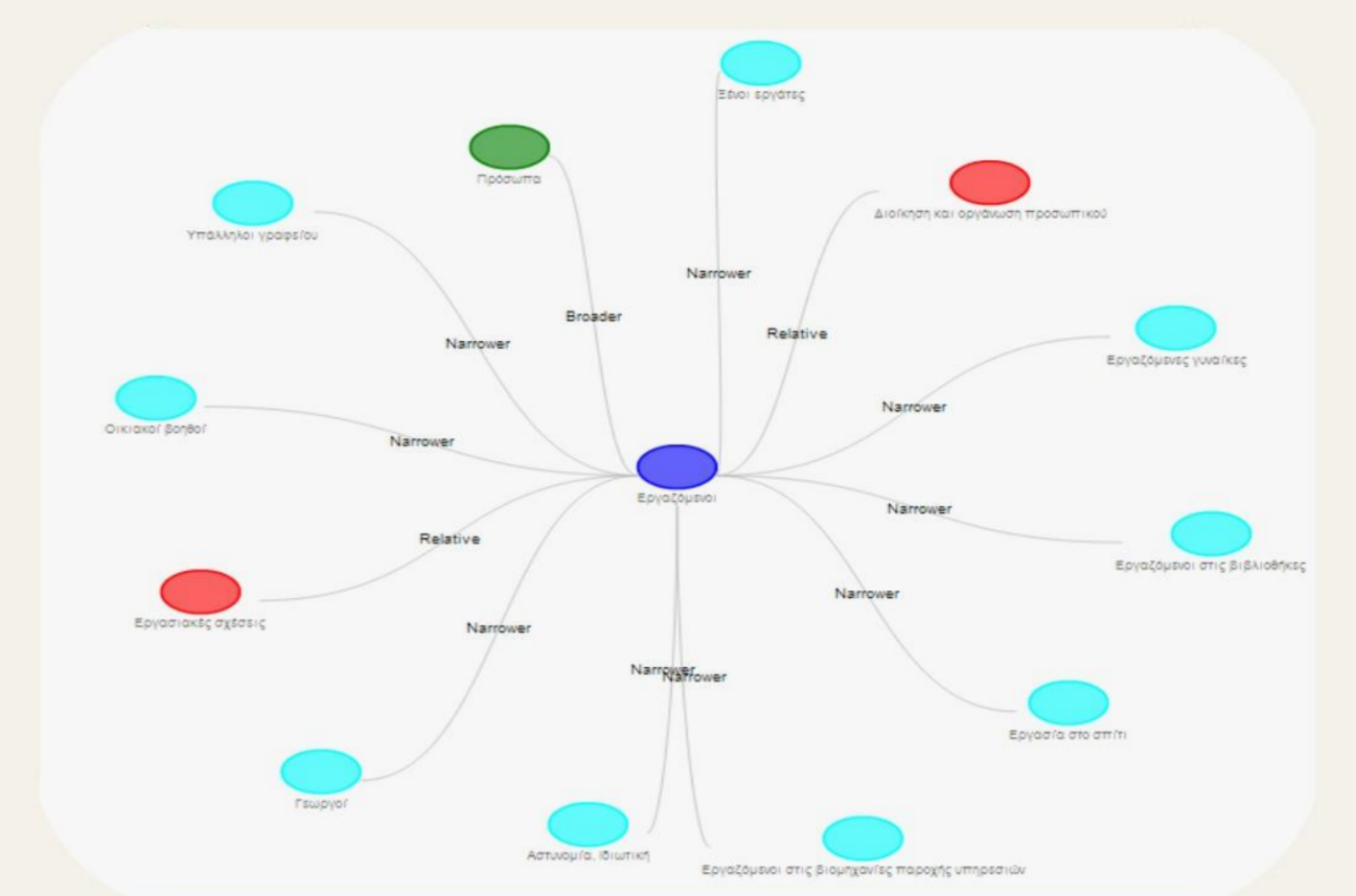
Polaris provides the opportunity to some users, who are registered, to log on to the system. These users have more privileges than a common user. One of the privileges of a registry user is that, in addition to the above four choices of the "Details" tab, he has also the opportunity to edit the UNIMARC representation of the record and his changes to be saved in the database.

View the association graph of the record

In the "Visualization" tab, a user can see a graph, that represents the associations of the Subject Heading of the record with Subject Headings of other records. In each graph, there exist:

- a blue node that represents the Subject Heading of the record and possibly
- green nodes, which represents its broader terms
- light blue nodes, that represents its narrow terms and
- red nodes, which represents its relative terms.

Moreover, if a user clicks on a node, he is sent to the "Visualization" tab of the record whose Subject Heading was being represented by the node he clicked. The above can happen, only if the record whose Subject Heading was represented by the node he clicked, exists in the database and also it has one or more 550 field in its UNIMARC representation. Graphical representations were implemented with the help of Dracula Graph Library.



Make a suggestion

Choosing the "Suggest" tab, user can propose a change of the terminology used for the Subject Heading of the record. For that reason, there are available three forms, in which he can complete his name his email and his suggestion.

One more privilege a registry user has, is that, it is appeared to him a hyperlink in the "Suggest" tab, which can send him to a page, that contains all the suggestions have been made for this record (or for all records exist in Polaris). Thus, he has the opportunity to assess every suggestion and reject the suggestion by deleting it or accept it and make the proposed change.

Other functionalities

Downloading and printing functions are embedded in the application. Furthermore, POLARIS is bridging bridges library's resources under a single platform. Each user can access repository's (<http://pandemos.panteion.gr/>) and OPAC's (<http://library.panteion.gr/opacial/>) records browsing POLARIS data.

Future work

Among the future objectives of the development team are:

- the automation of mapping between library's records with LCSH and VIAF
- the participation of more libraries to Panteion Library's attempt

References

- <http://data.bnf.fr/>
- <http://linkeddatatool.com/editions/1.0/>
- <http://id.loc.gov/authorities/subjects.html>