
	Titre du document : Portail basé sur VuFind et Fédération des forges
	Référence : 2.6.3
	Version 1.1

Portail basé sur VuFind et Fédération des forges


Livrable du au titre du projet	COCLICO
Lot	2 Interopérabilité et échange de données
Tache	2.6 Fonctionnalités pour la fédération de forges
Livrable	2.6.3

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Documents applicables
Annexe technique au projet COCLICO

Documents de références (pour information)
http://vufind.org/wiki/start
http://vufind.org/
http://www.openarchives.org/pmh/
Livrables 3.4.1, 3.4.2, 3.4.3, 2.6.3
http://en.wikipedia.org/wiki/RDFa
http://en.wikipedia.org/wiki/Linked_data
http://usefulinc.com/ns/doap#
http://xmlns.com/foaf/0.1/
http://librdf.org/raptor/rapper.html
http://rvot.sourceforge.net/

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Gestion des versions

N° de version	Date	Auteurs	Modification apportées
V 1.1	18/10/10	L. Dini, H. Pelibossian	First version
V 1.0	01/08/11	L. Dini, H. Pelibossian	Consolidated version

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Sommaire


Ce document (en anglais) montre comment la mise en place d'un portail capable de fédérer différentes forges a été réalisée.

A ce propos, en vue de s'adapter aux différentes caractéristiques des forges, nous avons construit notre application sur la mise à disposition d'un serveur OAI-PMH (livrable 2.6.2) intégré au moteur de recherche COCLICO (livrables 3.4.1, 3.4.2, 3.4.3) *et* sur la capacité à traiter des méta-données obtenues dans les standards du Web Sémantique tels que FOAF et DOAP, mis à disposition par des forges publiques basées sur la version 5.1 de FusionForge.

Ce document donne des explications sur la façon d'installer l'interface de fédération pour tous les administrateurs qui souhaiteront mettre en place une fédération de forges.

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1 Installation

The COCLICO-Vufind version is a modified version of VuFind 1.0 Release candidate. It allow you to access the indexed content of your forge via a user-friendly environment offering facets navigation, social tagging, advanced search, etc.

As a prerequisite you must have a default VuFind installed on your system running with your SOLR server. For instructions on how to perform this installation please consult the documentation at the site <http://vufind.org/>.

Once you have evidence that VuFind is working on your data (no errors and possibility to register user, tag records, etc), the COCLICO patch need to overwrite some files and add new ones. The patch contains the following files:

[httpd-vufind.conf](#)

web=:
RecordDrivers
conf
interface


web\RecordDrivers=:
[CoclicoRecord.php](#)

web\conf=:
[config.ini](#)
[facets.ini](#)
[searches.ini](#)
[searchspecs.yaml](#)

web\interface\themes\coclico=:
RecordDrivers
Search
css
[footer.tpl](#)

web\interface\themes\coclico\RecordDrivers\Index=:
[result.tpl](#)

web\interface\themes\coclico\Search=:
[list.tpl](#)

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web\interface\themes\coclico\css=:

coclico.css

styles.css

It is important to notice that **you don't need to overwrite your config.ini.**


In most case it is better to keep it as it was and perform this only modification:

theme = coclico,default

This directive will enable the system to access the COCLICO specific configuration.

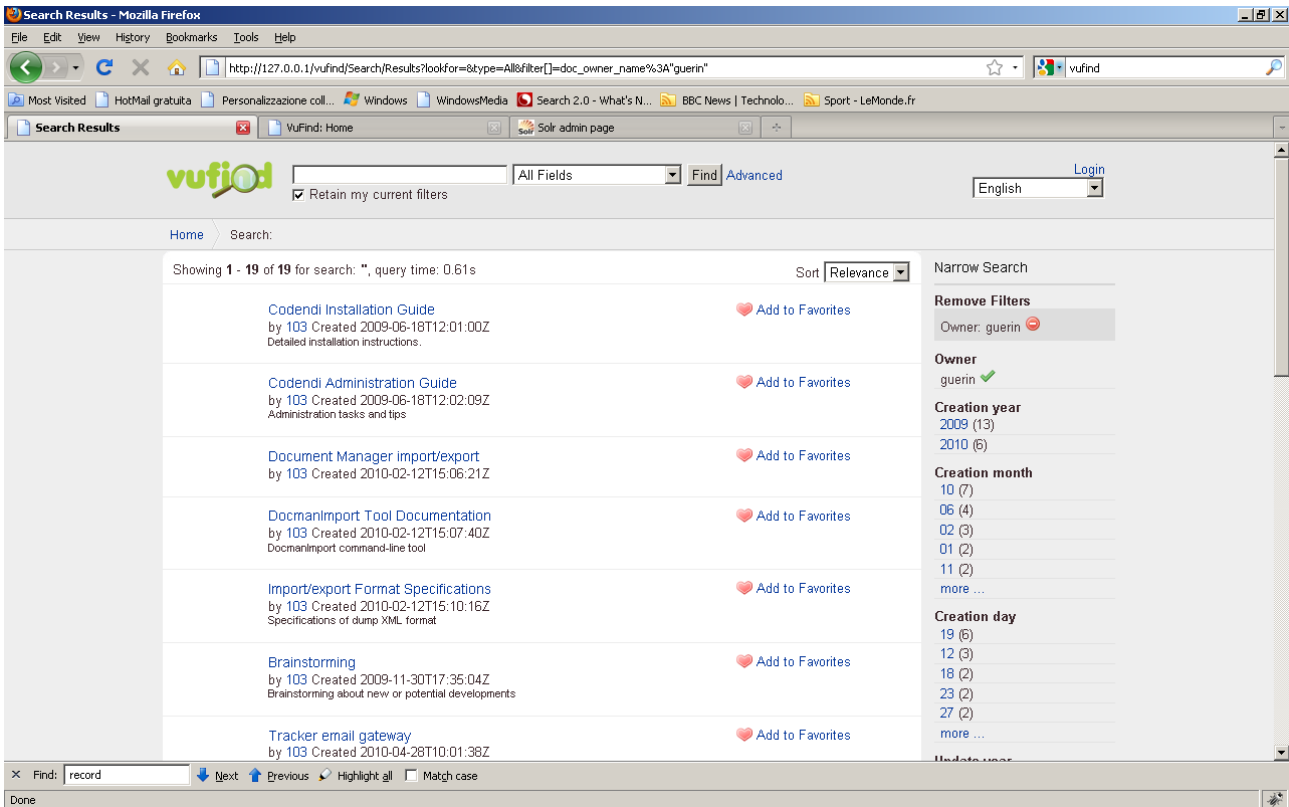
WARN: to really see you data it is essential that each indexed record has the field:

recordtype:Coclico

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2 Configuration

If everything went the right way you should see something like this:



Configuration to your own forge involves mainly three aspects:


- Configuring facets (rightmost columns)
- Configuring searches (text area)
- Configuring appearance of the result hits.

Configuring Facets

The main place for configuring facets is the file `web\conf\facets.ini`

The file contains comments on how to configure facets. Some rule of thumbs should be taken into consideration when adding/removing facets:

1. Facets are for the user: the most labels are self-explicative, the bests it is.
2. Facets foci (labels) should be in a reasonable number and group reasonable amounts of documents.
3. Facets can be combined with free text: the user should be incited to use a mixture of free text and facet based navigation.

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Configuring Searches

Search configuration is achieved in

```
web\conf\searches.ini
web\conf\searchspecs.yaml
```

In the file `searches.ini` you are likely to be willing to modify the section:

```
[Basic_Searches]
All="All Fields"
Attachment="Attachments documents"
Structured="Structured Fields"
```

These three couple id-labels are the name that appear in the drop-down menu close to the search text area. The meaning of the identifiers is spelled out in `web\conf\searchspecs.yaml`. For instance the specification :


All:

QueryFields:

- external_file:
 - [onphrase, 350]
 - [and, 200]
 - [or, 100]
- doc_description:
 - [onphrase, 350]
 - [and, 200]
 - [or, 100]
- comments:
 - [onphrase, 350]
 - [and, 200]
 - [or, 100]
- doc_title:
 - [onphrase, 350]
 - [and, 200]
 - [or, 100]

means that when the label “all fields” is selected the system will search in the field “external_file” first for the whole phrase with a boost (importance in case of positive hits) of 350, as AND terms with a boost of 200, and with a lower boost as OR. It will also look in the field `doc_description` etc.

There is a number of ways to structure very specific queries, and these are documented in the file `web\conf\searchspecs.yaml`. In general one should remind that users in most cases do not understand what a query structure is, so we advise to keep

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search types to a small number and make them as interpretable as possible from a humane point of view.

In web\conf\searches.ini one can also define “advanced queries”: we suggest to add fields for all meaningful fields **effectively assigned in your index**. Also, please, remind that your users will rarely make use of advanced queries.

Configuring appearance of the result hits

The appearance of the result list is mainly conditioned by the *theme*. The Coclico version contains a special theme called “Coclico”, which overrides some specificities of the Default theme. Notice that the specific theme is loaded dynamically according to the field “recordtype” which should always be “Coclico” (token identity, including capitalisation).

Graphic Configuration mainly concerns the way in which result hits are displayed. Usually in an federation of Digital Libraries, record information comes from a central database. In our case information, it comes from a SOLR index, which is accessed via the class:

web\RecordDrivers\CoclicoRecord.php

This contains a set of functions which are called elsewhere in the display process. For instance:

```
protected function getTitle()
{ $res = "";
  $urls = array();
  if (isset($this->fields['doc_title']) && is_array($this->fields['doc_title'])) {
    foreach($this->fields['doc_title'] as $url) {
      $res=$res.$url;
    }
  }
  return $res; }
```


returns the doc_title field. At the current state of the art, you will have to write an accessor function for each piece of information you might want to display.

The file

web\interface\themes\coclico\RecordDrivers\Index\result.tpl

contains the template for visualizing each single items. In the sample configuration you will notice expressions such as:

```
<div class="resultItemLine2">
{if !empty($summAuthor)}
{translate text='by'}
<a href="{ $url }/Author/Home?author={ $summAuthor|
```

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```
escape:"url"}">{$summAuthor|highlight:$lookfor}</a>
{/if}
```

```
{if $summDate}{translate text='Created'} {$summDate|escape}{/if}
</div>
```

Here, the crucial point is the use of special variable such as \$summAuthor or \$summDate. These variable are mainly assigned to the interface in the class web/RecordDrivers/IndexRecord.php in statements such as:

```
$interface->assign('summAuthor', $this->getPrimaryAuthor());
```

The name of variable is misleading as it is has been conceived to be used in a “traditional” digital library. We keep it in order to avoid “proprietary” modifications of the IndexRecord.php class. In the future, a more generic approach might be implemented.

Other .tpl files for modifying the appearance are in the directory web\interface\themes\coclic, including a coclico.css which can be specialized for the purposes of a single forge.