BibMate – readme

7 maja 2012

Michał Lenart

Institute of Computer Science Polish Academy of Sciences

About

BibMate is a simple, web-based reference management service, developed at the Institute of Computer Science, Polish Academy of Sciences, Warsaw.

It features:

– import and export of bibliographic data to and from BibTeX (with full unicode support)
– filtering publication lists by author, title, year and keyword
– attaching PDF files to publications
– generating pretty-formatted lists of citations in HTML, ready to be embedded on an external webpage
– flawless MoinMoin wiki integration with provided plugin

Homepage: http://zil.ipipan.waw.pl/BibMate/

Author: Michał Lenart [michal.lenart@ipipan.waw.pl]

License: GPL v.3

1 Requirements

1.1 Client

On the client side it can be used with any modern web browser.

1.2 Server

BibMate service was tested only on Linux operating system (preferrably Debian-based one).

Dependencies The service requires following libraries:

– Python $v \geq 2.7$
– Django $v \geq 1.3$
– Pybtex - Python library for BibTeX manipulation - http://pybtex.sourceforge.net/ $v \geq 0.15$
– lighttpd $v \geq 1.4$ (should also work with Apache)
– detex (part of texlive-binaries Ubuntu/Debian package)
– bibclean $v \geq 2.11.4$

2 Standards for representation of bibliographic information

BibMate uses BibTeX both for input and output of data.

3 Installation

In order to run BibMate you need to proceed following steps.

3.1   Editing application settings

Go to `bibmate/bibmate` directory in the package. Edit the `settings.py.SAMPLE` file.

You need to edit at least following variables:

- `ROOT_URL` - the root URL for BibMate - for example: http://zil.ipipan.waw.pl/publications
- `STATIC_URL` - URL prefix for static files - CSS, images, Javascript, etc. (NOTE: it is highly recommended to host static files on different server then the BibMate application). The `bibmate/static` directory (or its copy) has to be accessible from that address.
- `TITLE` - the title to be displayed on the front page, for example "My Publications Database"
- `LOGO_URL` - link to the logo to be displayed on the front page
- `TIME_ZONE` - local time zone for your installation
- `SQLITE_DB_LOCATION` - path to the file the application database will be stored in

3.2   Initializing and running the application

Database initialization To initialize the database and create superuser account run:

```
python manage.py syncdb
```

After that the application database will be initialized and BibMate will be ready to run.

Running in development mode In order to test BibMate you can run it in development mode:

```
python manage.py runserver
```

Now you can test BibMate at http://127.0.0.1:8000 using your web browser (please don't use Internet Explorer when running development mode).

Running as FastCGI server Suggested method for running production mode is via FastCGI:

```
python manage.py runfcgi host=<hostname> port=<port> \
    method=threaded \
    pidfile=/path/to/django/pid/file.pid \
    daemonize=true \
    errlog=/path/to/error.log \
    outlog=/path/to/output.log
```

Each request sent by client web browser will be sent to this FastCGI server by lighttpd. If it is run on the same machine as webserver (lighttpd) then `hostname` should be equal to `127.0.0.1`.

3.3   Configuring lighttpd webserver

Once you have your BibMate instance running as FastCGI server you need to configure your webserver to connect to it. The recommended way is to use lighttpd. All you need is edit sample configuration file provided in the package and run:

```
lighttpd -f lighttpd.conf
```

From now on BibMate should be fully functional.

3.4   Installing MoinMoin BibMate macro (optional)

In order to use MoinMoin plugin you have to do the following:

– copy `BibMate.py` file from `bibmate/moin_macro` to `/path_to_wiki_instance/data/plugin/macro`
– change `BIBMATE_PATH` variable in that file to the BibMate's URL (the same as `ROOT_URL` variable mentioned in 3.1)
– restart wiki server

4   Usage

This section covers BibMate usage.

4.1   Importing publications list from BibTeX

Use „import" link on the menu. You must be logged in to do this.

4.2   Attaching PDF files

Find desired publication, select the triangle on the left, click „edit" link and upload the PDF file. You must be logged in to do this.

4.3   Browsing publications list

To see all of the publications simply enter the main BibMate webpage. You can also search by author, title, year and keywords with the search form on the top of the page.

4.4   Exporting to BibTeX

Click the „Download BibTeX file" link on the top of the publications list. All currently viewed publications (with their crossrefs) will be exported to BibTeX.

4.5   Embedding publications list on external webpage

You can easily get your list of publications in HTML, without menu and logo by just getting a page at address http://example.com/publications/list/ (with added „/list" to the end of the URL) instead of http://example.com/publications/.

Moreover by adding some query parameters you can filter your publications list by:

– author names (list entries containing „kowalski" or „nowak"): http://example.com/publications/list/?searchBy=author&argument=kowalski&argument=nowak
– title (list entries containing string „formal approach"): http://example.com/publications/list/?searchBy=title&argument=formal%20approach
– year (list entries published in years 2001 or 2002): http://example.com/publications/list/?searchBy=year&argument=2001&argument=2002
– keyword (list entries containing keywords „xml" or „corpora"): http://example.com/publications/list/?searchBy=keyword&argument=xml&argument=corpora
– key (list entries with key equal to „key_1" or „key_2"): http://example.com/publications/list/?searchBy=key&argument=key1&argument=key2

4.6   Using MoinMoin wiki plugin

Once you have MoinMoin wiki with correctly installed plugin (see 3.4), you can embed into your wiki page:

– publications of people with given names: `<<BibMate(author, "Jan Kowalski", "Jerzy Nowak")>>`
– publications with given keys: `<<BibMate(key, "prz:etal:11:ed", "coling:posters:10")>>`
– publications with given keywords: `<<BibMate(keyword, "xml", "corpora")>>`

You can also omit year headers in publications list on your wiki by using `omitYears=true` parameter: `<<BibMate(keyword, xml, corpora, omitYears=true)>>`

5   Administration

This section covers basic administration tasks regarding BibMate service.

5.1   Running the service

Running the service is covered in 3.2.

5.2   Managing user accounts

Use http://example.com/publications/admin page (assuming http://example.com/publications is your BibMate's root URL).

5.3   Importing BibTeX using a commandline

To import publications from BibTeX using a command line, you need to type (in bibmate directory):

```
python manage.py bib_import <path_to_bibtex_file>
```