
Flask-Sitemap Documentation

Release 0.1.0

CERN

February 03, 2015

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Flask-Sitemap is a Flask extension helping with sitemap generation.

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1.1 Installation

Flask-Sitemap is on PyPI so all you need is :

```
$ pip install flask-sitemap
```

The development version can be downloaded from [its page at GitHub](#).

```
$ git clone https://github.com/inveniosoftware/flask-sitemap.git
$ cd flask-sitemap
$ python setup.py develop
$ ./run-tests.sh
```

1.1.1 Requirements

Flask-Sitemap has the following dependencies:

- [Flask](#)
- [blinker](#)
- [six](#)

Flask-Sitemap requires Python version 2.6, 2.7 or 3.3+

1.2 Usage

This part of the documentation will show you how to get started in using Flask-Sitemap with Flask.

This guide assumes you have successfully installed Flask-Sitemap and a working understanding of Flask. If not, follow the installation steps and read about Flask at <http://flask.pocoo.org/docs/>.

1.2.1 Simple Example

First, let's create the application and initialise the extension:

```
from flask import Flask, session, redirect
from flask_sitemap import Sitemap

app = Flask("myapp")
ext = Sitemap(app=app)

@app.route('/')
def index():
    pass

@ext.register_generator
def index():
    # Not needed if you set SITEMAP_INCLUDE_RULES_WITHOUT_PARAMS=True
    yield 'index', {}

if __name__ == '__main__':
    app.run(debug=True)
```

If you save the above as `app.py`, you can run the example application using your Python interpreter:

```
$ python app.py
* Running on http://127.0.0.1:5000/
```

and you can observe generated sitemap on the example pages:

```
$ firefox http://127.0.0.1:5000/
$ firefox http://127.0.0.1:5000/sitemap.xml
```

You should now be able to emulate this example in your own Flask applications. For more information, please read the [Index Page](#) guide, the [Caching](#) guide, and peruse the [API](#).

1.2.2 Index Page

By default, a sitemap contains set of urls up to `SITEMAP_MAX_URL_COUNT`. When the limit is reached a sitemap index file with list of sitemaps is served instead. In order to ease [Caching](#) of sitemaps a signal `sitemap_page_needed` is fired with current application object, page number and url generator.

1.2.3 Caching

Large sites should implement caching or their sitemaps. The following example shows an basic in-memory cache that can be replaced by *Flask-Cache*.

```
from functools import wraps
from flask_sitemap import Sitemap, sitemap_page_needed
```



```
cache = {} # replace by *Flask-Cache* instance or similar

@sitemap_page_needed.connect
def create_page(app, page, urlset):
    cache[page] = sitemap.render_page(urlset=urlset)

def load_page(fn):
    @wraps(fn)
    def loader(*args, **kwargs):
        page = kwargs.get('page')
        data = cache.get(page)
        return data if data else fn(*args, **kwargs)
    return loader

self.app.config['SITEMAP_MAX_URL_COUNT'] = 10
self.app.config['SITEMAP_VIEW_DECORATORS'] = [load_page]

sitemap = Sitemap(app=self.app)
```

1.3 Configuration

The details of the application settings that can be customized.

1.3.1 SITEMAP_URL_METHOD

Default: http.

1.3.2 SITEMAP_BLUEPRINT

If None or False then the Blueprint is not registered.

Default: flask_sitemap.

1.3.3 SITEMAP_GZIP

Default: False.

1.3.4 SITEMAP_BLUEPRINT_URL_PREFIX

Default: /.

1.3.5 SITEMAP_ENDPOINT_URL

Return sitemap index or sitemap for pages with less than SITEMAP_MAX_URL_COUNT urls.

Default: sitemap.xml.

1.3.6 SITEMAP_ENDPOINT_PAGE_URL

Return GZipped sitemap for given page range of urls.

Note: It is strongly recommended to provide caching decorator.

Default: `sitemap<int:page>.xml`

1.3.7 SITEMAP_INCLUDE_RULES_WITHOUT_PARAMS

Default: `False`.

1.3.8 SITEMAP_IGNORE_ENDPOINTS

Default: `None`.

1.3.9 SITEMAP_VIEW_DECORAROS

Default: `[]`.

1.3.10 SITEMAP_MAX_URL_COUNT

The maximum number of urls per one sitemap file can be up to 50000, however there is 10MB limitation for the file.

Default: `10000`.

1.4 API

This documentation section is automatically generated from Flask-Sitemap's source code.

1.4.1 Flask-Sitemap

Flask-Sitemap generates an application `sitemap.xml`.

Initialization of the extension:

```
>>> from flask import Flask
>>> from flask_sitemap import Sitemap
>>> app = Flask('myapp')
>>> ext = Sitemap(app=app)
```

or alternatively using the factory pattern:

```
>>> app = Flask('myapp')
>>> ext = Sitemap()
>>> ext.init_app(app)
```

```
class flask_sitemap.Sitemap(app=None)
    Flask extension implementation.
```

gzip_response (*data*)

GZip response data and create new Response instance.

init_app (*app*)

Initialize a Flask application.

page (*page*)

Generate sitemap for given range of urls.

register_generator (*generator*)

Register an URL generator.

The function should return an iterable of URL paths or (*endpoint*, *values*) tuples to be used as `url_for(endpoint, **values)`.

Returns the original generator function

render_page (*urlset=None*)

Render GZipped sitemap template with given url set.

sitemap ()

Generate sitemap.xml.

xml_response (*data*)

Standard XML response.

1.5 Changelog

Here you can see the full list of changes between each Flask-Sitemap release.

Version 0.1 (released 2015-02-03)

- Initial public release. (#12)
- Support for configurable gzip response.
- Quickstart example for signals and caching. (#8)
- Support for sitemap pages. (#3)
- Adds an option `SITEMAP_VIEW_DECORATORS` for specifying list of view decorators. (#4)
- Adds support for ignoring certain endpoints through `SITEMAP_IGNORE_ENDPOINTS` configuration option. (#2)
- Adds new option to automatically include all endpoints without parameters. In order to enable this feature set `SITEMAP_INCLUDE_RULES_WITHOUT_PARAMS` to `True`. (#2)

1.6 Contributing

Bug reports, feature requests, and other contributions are welcome. If you find a demonstrable problem that is caused by the code of this library, please:

1. Search for [already reported problems](#).
2. Check if the issue has been fixed or is still reproducible on the latest *master* branch.
3. Create an issue with a **test case**.

If you create a feature branch, you can run the tests to ensure everything is operating correctly:

```
$ ./run-tests.sh
...
Ran 8 tests in 0.246s

OK
Name                               Stmts  Miss  Cover   Missing
-----
flask_sitemap/__init__             47      0   100%
flask_sitemap/config                4      0   100%
flask_sitemap/version               2      0   100%
-----
TOTAL                               53      0   100%
```

1.7 License

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1.8 Authors

Flask-Sitemap is developed for use in [Invenio](#) digital library software.

Contact us at info@invenio-software.org

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