
anysearch Documentation

Release 0.1

Artur Barseghyan <artur.barseghyan@gmail.com>

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AnySearch is a **Elasticsearch** and **OpenSearch** compatibility library. It provides utility functions for smoothing over the differences between the Python libraries with the goal of writing Python code that is compatible on both (including the `*search`, `*search-dsl` and `django-*search-dsl` integration packages).

See the documentation for more information on what is provided.

DOCUMENTATION

Documentation is available on [Read the Docs](#).

PREREQUISITES

- Python 3.7, 3.8, 3.9 and 3.10.

INSTALLATION

Install latest stable version from PyPI:

```
pip install anysearch
```

or latest stable version from GitHub:

```
pip install https://github.com/barseghyanartur/anysearch/archive/main.tar.gz
```


CONFIGURATION

AnySearch automatically detects whether you use Elasticsearch or OpenSearch by looking at which packages are installed. However, if you have both packages installed and you can instruct AnySearch which one do you actually want to use. The way to do that is to set the `ANYSEARCH_PREFERRED_BACKEND` environment variable to either Elasticsearch or OpenSearch.

For Elasticsearch:

```
import os
os.environ.setdefault("ANYSEARCH_PREFERRED_BACKEND", "Elasticsearch")
```

For OpenSearch:

```
import os
os.environ.setdefault("ANYSEARCH_PREFERRED_BACKEND", "OpenSearch")
```


5.1 elasticsearch/opensearch

5.1.1 How-to

In elasticsearch you would do:

```
from elasticsearch import Elasticsearch
```

In opensearch-dsl you would do:

```
from opensearch_py import OpenSearch
```

With anysearch you would change that to:

```
from anysearch.search import AnySearch
```

5.2 elasticsearch-dsl/opensearch-dsl

5.2.1 How-to

In elasticsearch-dsl you would do:

```
from elasticsearch_dsl import AggsProxy, connections, Keyword
from elasticsearch_dsl.document import Document
```

In opensearch-dsl you would do:

```
from opensearch_dsl import AggsProxy, connections, Keyword
from opensearch_dsl.document import Document
```

With anysearch you would change that to:

```
from anysearch.search_dsl import AggsProxy, connections, Keyword
from anysearch.search_dsl.document import Document
```

5.3 django-elasticsearch-dsl/django-opensearch-dsl

5.3.1 How-to

In django-elasticsearch-dsl you would do:

```
from django_elasticsearch_dsl import fields, registry
from django_elasticsearch_dsl.documents import Document
from django_elasticsearch_dsl.fields import TextField
```

In opensearch-dsl you would do:

```
from django_opensearch_dsl import fields, registry
from django_opensearch_dsl.documents import Document
from django_opensearch_dsl.fields import TextField
```

With anysearch you would change that to:

```
from anysearch.django_search_dsl import fields, registry
from anysearch.django_search_dsl.documents import Document
from anysearch.django_search_dsl.fields import TextField
```


TESTING

Project is covered with tests.

To test with all supported Python versions type:

```
tox
```

To test against specific environment, type:

```
tox -e py39
```

To test just your working environment type:

```
pytest
```

To run a single test in your working environment type:

```
pytest test_anysearch.py
```

To run a single test class in a given test module in your working environment type:

```
pytest test_anysearch.py::DjangoSearchDSLTestCase
```

It's assumed that you have either `elasticsearch-dsl` or `opensearch-dsl` installed. If not, install the requirements first.

WRITING DOCUMENTATION

Keep the following hierarchy.

```
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title  
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header  
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sub-header  
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*****
```


LICENSE

MIT

SUPPORT

For any security issues contact me at the e-mail given in the *Author* section. For overall issues, go to [GitHub](#).

CHAPTER
TEN

AUTHOR

Artur Barseghyan <artur.barseghyan@gmail.com>

DOCUMENTATION

Contents:

11.1 Release history and notes

Sequence based identifiers are used for versioning (schema follows below):

<code>major.minor[.revision]</code>

- It's always safe to upgrade within the same minor version (for example, from 0.3 to 0.3.4).
- Minor version changes might be backwards incompatible. Read the release notes carefully before upgrading (for example, when upgrading from 0.3.4 to 0.4).
- All backwards incompatible changes are mentioned in this document.

11.1.1 0.1.3

2022-07-22

- Better support of `elasticsearch/opensearch`.

11.1.2 0.1.2

2022-07-21

- Minor Python 3.7 and 3.8 fixes.

11.1.3 0.1.1

2022-07-21

- Minor improvements.
- Add docs.

11.1.4 0.1

2022-07-21

- Initial beta release.

INDICES AND TABLES

- `genindex`
- `modindex`
- `search`