
atsphinx-sqlite3fts

Release 0.1.3

Kazuya Takei

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PyPI
GitHub Actions
Read the Docs

atsphinx-sqlite3fts is sphinx extension to provide some components.

- Full-text search database by FTS5
- Custom HTML to search by user

This is experimental package. It implements minimum works and provide only minimum configurations.

GETTING STARTED

1.1 Requirements

- Python 3.7+
 - You can see requirement packages from `pyproject.toml`.
- SQLite 3.34.0+

1.2 Installation

This is published on PyPI.

```
pip install atsphinx-sqlite3fts
```

If you want to try latest source, install from GitHub.

```
pip install git+https://github.com/atsphinx/sqlite3fts.git
```

1.3 Usage

At first, configuration on `conf.py` of your documentation.

```
extensions = [  
    "atsphinx.sqlite3fts",  
]  
  
# Set if you want to use for HTML search  
sqlite3fts_use_search_html = True
```

1.3.1 Try search by local database

You can build database by sqlite builder.

```
make sqlite  
sqlite3 _build/sqlite/db.sqlite
```

```
sqlite> SELECT * FROM content MATCH "installation";
```

See *Database specification*.

CONFIGURATION

`sqlite3fts_exclude_pages`

Type
List[str]

Default
[]

Example
["index", "404"]

List of documents that are excluded for target of register database. This should be used when some documents need not be searched.

Value must be **docname**, not filename. If you want to exclude `index.rst`, you should set `index`.

`sqlite3fts_use_search_html`

Type
bool

Default
False

Example
True

Use custom search page.

If you set True for this, `atsphinx-sqlite3fts` does these.

- Override JavaScript file for search.
- Change style to display search results.

DATABASE SPECIFICATION

This is writing about specification of generated database.

3.1 Base

Using SQLite and FTS5 extension. Details are described in [SQLite website](#).

atsphinx-sqlite3fts run these strategy.

- Use `trigram` tokenizer to search Japanese text (not work with `unicode61`).
- Split document table and searching virtual table (document has `page` that is not target of search).

3.2 Tables

atsphinx-sqlite3fts use peewee to manage database schemas.

3.2.1 document table

This table contains all of property for refer to documents.

3.2.2 section table

This table contains all of property for refer to section of documents.

3.2.3 content table

This table is registered only targets of full-text searching. Currently, this contains title and body of documents.

body is plain text to pick all text contents from doctree.

3.2.4 Relation

- `section.document_id` is as foreign key to `document.id`.
- `document-fts.rowid` is as foreign key to `section.id`.

You can use JOIN statement some tables.

SIMPLE CLI TOOL

atsphinx-sqlite3fts provides simple CLI tool to display result of searching.

4.1 Requirements

If you want to use CLI tool, it need Click library. You can insallt `atsphinx-sqlite3fts` with extra packages.

```
pip install 'atsphinx-sqlite3fts[cli]'
```

4.2 Usage example

Before run CLI, build database by `sphinx-build`.

```
sphinx-build -b sqlite . _build
```

To search from database, run command with path of database and keyword.

```
atsphinx-sqlite3fts _build/db.sqlite Hello

cli-tool
  Simple CLI tool

getting-started
  Getting started
```

Command display pagename and title.

CHANGELOGS

LATEST CHANGES

6.1 v0.1.3

date

2023-10-26

(Not featured release)

6.1.1 Misc

- Fix to upload into GitHub Releases.
- Fix release-date of v0.1.2

6.2 v0.1.2

date

2023-10-26

6.2.1 Important

- Rename from `sphinx-sqlite3fts`

6.2.2 Fixes

- Ref content-root when using Sphinx>=7.2

6.3 v0.1.1

date

2022-11-28

Small bug-fixes.

6.3.1 Fixes

- Force override `searchindex.js` as blank file.
- `searchtools.js` initialize engine lazy.

6.4 v0.1.0

date

2022-11-27

For JavaScript based search-engine.

6.4.1 Features

- Split sections from document for search (useful for refs of page).
- Add flag: search from database instead of Sphinx bundled search feature.

6.5 v0.0.3

date

2022-11-26

Update documents

6.5.1 Documentation

- Add badges into readme and documentation.
- Follow notes for v0.0.2

6.6 v0.0.2

date

2022-11-23

Supporting for local development.

6.6.1 Miscellaneous

- Use `bump2version` for release.
- Configure about line-length for `pycodestyle`.

6.7 v0.0.1

date

2022-11-23

This is first release.

6.7.1 Features

- Add `sqlite` builder that generate `db.sqlite`.
- Inject generator for database into `html` based builder.

INDEX

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