# **Documentation tools for python**

Documenting a project is crucial for maintaining code quality and ensuring that other developers can understand and contribute to the codebase. Some popular documentation tools for python projects are-

- > Sphinx
- ➤ MkDocs
- ➤ ReadTheDocs
- > DjangoRest frameworks etc.

### **Sphinx:**

- Widely used in Python community
- More powerful and flexible
- Supports multiple markup languages
- Supports extension for customizing documentation output
- May find the syntax less straightforward compared to Markdown.

#### **❖** MkDocs:

- Simple and easy set up
- Widely used for small projects
- But may be less powerful than Sphinx for large or complex project

### **❖** ReadTheDocs:

- Integrates well with version control systems
- Automatically builds and updates documentation on each commit
- Supports various documentation formats.
- Limited theming options compared to some other tools.

## DjangoRest frameworks:

- Designed for documenting Django REST framework APIs.
- Integrates with Swagger/OpenAPI, providing interactive API documentation.
- Primarily focused on RESTful APIs.

Actually, the choice of documentation tool depends on specific needs, team's preferences, project requirements etc. Though MkDocs is good for small and medium projects but it is less powerful than sphinx and our team is familiar with Sphinx that's why we have preferred to use Sphinx than others for documentation.

## Let's start with Sphinx

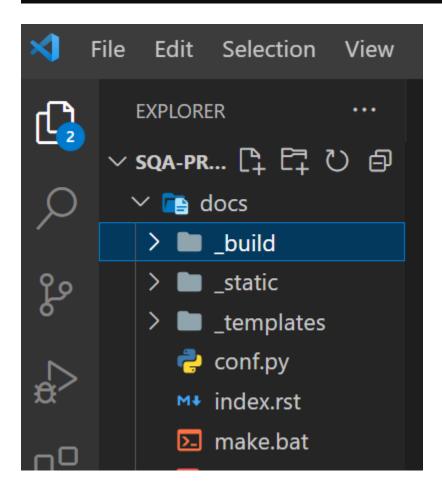
- First of all, we have to create an docs folder in our project.
- ➤ Then we have to install as following:



 $\triangleright$  Go to the > cd docs

```
Anaconda Prompt (miniconda3) - "C:\Users\A\miniconda3\condabin\conda.bat" activate venv — X

(venv) E:\4-2\SQA\SQA-Project\docs>sphinx-quickstart
```



Now we have to edit some certain part of conf.py:

```
import os
import sys
sys.path.insert(0, os.path.abspath("../my_sqa_py_pkg/src"))

extensions = [
    "sphinx.ext.viewcode",
    "sphinx.ext.todo",
    "sphinx.ext.autodoc"
]
```

```
html_theme = 'sphinx_rtd_theme'
html_static_path = ['_static']
```

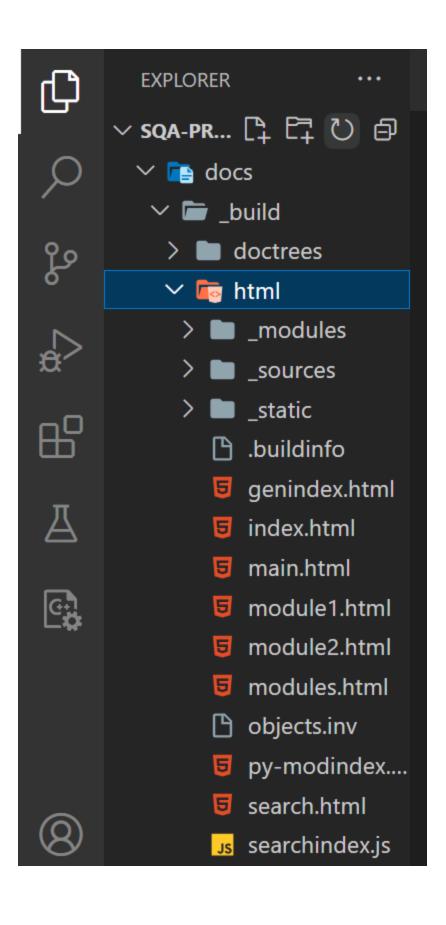
➤ Then edit index.rst

```
(venv) E:\4-2\SQA\SQA-Project>cd my_sqa_py_pkg

(venv) E:\4-2\SQA\SQA-Project\my_sqa_py_pkg>sphinx-apidoc -o ../docs src/
```

> For making html doc

```
(venv) E:\4-2\SQA\SQA-Project>cd docs
(venv) E:\4-2\SQA\SQA-Project\docs>make html
Running Sphinx v7.2.6
making output directory... done
puilding [mo]: targets for 0 po files that are out of date
vriting output...
puilding [html]: targets for 5 source files that are out of date
updating environment: [new config] 5 added, 0 changed, 0 removed
reading sources... [100%] modules
looking for now-outdated files... none found
pickling environment... done
hecking consistency... done
preparing documents... done
copying assets... copying static files... done
copying extra files... done
done
vriting output... [100%] modules
generating indices... genindex py-modindex done
nighlighting module code... [100%] module2.file2
vriting additional pages... search done
dumping search index in English (code: en)... done
dumping object inventory... done
ouild succeeded.
The HTML pages are in _build\html.
```



- Then copy the path of index.html file.
- ➤ Then open this path using our browser.
- Now, the documentation is:

