
doxinabox Documentation

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Introduction

This project is a Sphinx example/template documentation for embedded software projects in C/C++. For further information about how to generate documentation with Sphinx visit the [Sphinx documentation website](#). Sphinx uses the extension Breathe to import C/C++ code documentation. Visit the [Breathe documentation website](#) for further customization of the generated documentation.

Have a look on the example/template documentation by jumping to `index.html` [`/doc/build/html/index.html`].

Have a look into the functional-requirements for a listing of all capabilities.

First time setup

- Fork the project per github-URL. Visit the [git documentation website](#) for further information about how to use git. You may also use “Download ZIP” from the [doxinabox github project website](#).
- Integrate the virtual environment of doxinabox into your virtualenv environment. Visit the [virtualenv documentation website](#) and [virtualenvwrapper documentation website](#) for further information about the setup and management of virtual environments. Copy the doxinabox virtual environment [/venv/doxinabox] into your directory containing the virtual environments. The packages may be installed from the requirement file [/venv/doxinabox/requirements.txt].
- Generate the .xml files with doxygen. The API documentation (section “Code documentation/Production code documentation”) of the template is generated from the example source code [/examplecode]. To generate the .xml files from this example code change into the directory which contains the doxygen configuration file (here: v1.8.9) [/doc/ext/doxygen]. Run doxygen in the shell with *doxygen sphinx*. The .xml files are placed in the source directory of sphinx [/doc/source/xml].
- (Optional) Replace the Sphinx theme “Read the docs” with a theme of your choice [/doc/source/_themes].
- Modify the Sphinx configuration file conf.py [/doc/source/]: project name, etc. TODO.
- Generate the .html project documentation with Sphinx. Change into the root directory of the documentation [/doc] and run *make html* (with active virtual environment “doxinabox”). The .html documentation is placed in [/doc/build/]. All files in this directory may be deleted before generating the next time.
- Insert the .html documentation [/doc/build/html] into your project directory. Use index.html [/doc/build/html/index.html] as entry point. The automatically generated production source code documentation is located in the section “Code documentation/Production code documentation”.

Contribution

- Install Python.

- Install an IDE (e.g. Ninja IDE for Linux from the [Ninja IDE website](#)).
- Get the code like already described.
- Happy coding...
- Create a free account on the GitHub website.
- Install a GUI for Git (e.g. gitg from the [gitg website](#)).
- Happy contributing over GitHub...

CHAPTER 3

Indices and tables

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