Integrating Sphinx with our project

Openethics

Been looking at it since yesterday,

installed it using pip

and read some basic tutorials in using it from

http://www.youtube.com/watch?v=LQ6pFgQXQ0Q

(Documenting python with sphinx)

basically this video is the same with this tutorial below

(http://packages.python.org/an_example_pypi_project/sphinx.html)

In summary, the usage is under **FOUR** big step :-

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1. Sphinx-quickstart
2. Sphinx –apidoc –f –o “output folder” “input folder/code folder”
3. Set Django environment at conf.py
4. Set file path for the files

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1. Sphinx-quickstart

and it will ask a lot of question to setup the documentation structure note that this can be on an independent directory to your project! BUT I am still figuring how to configure the path of the codes (see step 3 and 4)

you are creating a new directory. With index.rst files and the user need to create their own .rst files (which will be converted to html etc)

index.rst -> is converted to index.html and so on.

Then creating .rst files and editing to build our own documentation, manually! with its own fixed sphinx syntaxes and such.

Most of the tutorials that I found only stop until here. And they claim mostly this proves as a basis for documentation

*NOTE :- its hard as **** to find proper tutorial in using it "automatically", even if there was, until now all I stumbled on is all about guides using it under one folder (i.e documenting one folder of (python).py files)

Since we are trying to document Django project, which contains multiple packages of .py files :D this is where the problem comes in. Vanilla Sphinx doesn't have the automatic support for Django project documentation.

See here for what Ive been rambling on :-

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http://stackoverflow.com/questions/4616693/automatically-generating-documentation-for-all-python-package-contents/4617804#4617804

This guy basically have the same problem as ours!

2. Second step! the shinx-apidoc

And this is where I found that there is an extra functionalities in sphinx called

sphinx-apidoc

- **usage. -** sphinx-apidoc -f -o "output folder" "input folder"

To pull all the docstring in code automatically "recursively" on the target folder

output folder - it will create a folder based on, system filepath can be use too! eg "C:/folder - will create a folder "folder"

input folder - same as above but this is where the python docstring is being pulled

and the result for example in polls.rst will look like below

```
.. automodule:: polls.admin

    :members:

    :undoc-members:

    :show-inheritance:


.. automodule:: polls.models

    :members:

    :undoc-members:

    :show-inheritance:
```

etc...

(this is for polls package)

At first I thought *the :members: , :undoc-member: and :show-inheritance:* is a stub but when I managed to fixed the system path and created the html, it actually interacts with the codes and create codes based on that

i.e maybe its actually a sphinx variable to call the methods? I'll try to find the explanation later

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NOTE : THE 3RD AND 4TH STEP HAVE NOT BEEN SUCCESSFUL AND IT DEPENDS

ON EACH OTHER IN MY OPINION

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and this continues on the third step and fourth step!

3. Setting Django Environment on the newly created sphinx documentation directory

(remembers the sphinx-quickstart directory? under the "source folder there is a file named conf.py this needed tp be edited") based on this tutorial

http://jagdeepmalhi.blogspot.co.uk/2010/11/sphinx-auto-genrate- documentation-for.html

the part "configuring your django app"

But mine didnt work on this setup, Ive used

http://www.rlazo.org/2008/10/24/documenting-a-django-project-with-sphinx/

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FIXED : -

my configuration are as below

```
sys.path.insert(0, os.path.abspath('.'))


from Tutorial import settings

from django.core.management import setup_environ

setup_environ(settings)
```

Description,

and I have placed polls and Tutorial packages at the root documentation, where the make files are and since I've used current diretory @ sys.path.insert(0, os.path.abspath('.')), it all starts from there

Tutorial is the project name!

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But that came to my latest problem/issue

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the fourth step

4. Setting file path for the documentation to point to the right application or Code folder! :D

```
sys.path.append(os.path.abspath(os.path.dirname(__file__) + '/../../'))
```

I cant get this working as Im not really good with path"ing" with command line huahua

but Note that this is the one that the tutorials provided, the default conf.py came with a similar line of code (on line 19)

```
sys.path.insert(0, os.path.abspath('.'))
```

where the first youtube link in the tutorial said it points to the current directory where you created the documentation

What left now is that I need to figure how to use and change the path pointers the

sys.path.insert(0, os.path.abspath('.')) - and need help on these :D

Update note :- Just found out we need 3rd party application django, maybe django-sphinx to create a text search through all our code, for now we NEED to put code folder (or packages) inside Source folder then either using sphinx-api to generate autodocs and editing the index.rst manually

check this link –

It requires more installation and setup! Sql etc

http://pkarl.com/articles/guide-django-full-text-search-sphinx-and-django-sp/