Note:Free code 2018.8.10

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这里我开源了这个项目，这个项目个人觉得还需要添加很多东西，并且还需要优化项目。也可作为那些刚刚初学Python的同学，能够有个实战的项目练手，希望git上的朋友们能够帮忙修改、缝补这个项目，小弟我感激不尽。

题外话：Plog整个项目都是用Python语言完成，为什么要选择Python，是因为。。。我学的就是Python，哈哈，其实这只是部分原因，我用Python是因为它的代码简洁易读，不像c语言那样让人懵懵懂懂，在c语言面前，初学者就像是儿童，天真。但c语言有它的好处就是执行效率特表快，c语言打交道的对象就是硬件了。而Python的解释器之一就是用ac语言写的。对了为什么是之一，哈哈，原因是Python解释器有好多种，还有一种比较好用的是Java编写的解释器。对了这里提一下，c语言编写的解释器是不支持多线程的，它的多线程是表象的。什么叫表象，就是伪多线程，举个例子，你的cpu有100个核心，碉堡了的配置，但是，当用c解释器编译Python的多线程代码，然后去执行，你会发现它永远只使用一个核心，其它的99个核心都是空闲状态。造成这个原因是编写c解释器的时候，留了一个GIL锁，你可以通过百度GIL是什么东东。不过也可以融入c代码来实现多线程，你要知道，Python是胶水语言，任何语言都可以沾上Python，因此，写一段c代码，然后把这个多线程Python代码沾上去，Python就可以实现多线程，加入你的Python代码写的是20个线程，那么所使用cpu 的核心就是20个，一个也不会少。

扯了一点的Python历史，接下来继续描述Plog，下面描述下Plog整个框架结构吧。

我使用的网站框架是

1.django1.11，建立模型、视图函数、模板

2.存储数据的数据库是MySQL，存储数据

3.Python的版本是Python3.5.2

4. 开发环境是Ubuntu16.04.4版本

5.所使用的缓存数据库是redis，缓存数据，优化网站性能

6.异步处理任务的服务器是celery。实现异步功能，优化网站性能

7.采用nginx和uwsgi联接来部署网站

这些是目前这个网站所使用的所有工具了。原本想增加一个fastdfs文件存储服务器的，但是由于个人的前端技术不够，不能发挥富文本编辑器上传图片的功能，暂时的没有这个功能。不过我在项目目录中的settings.py文件中已经配置好了fdfs 和 haystack搜索引擎框架。

如果要使用这个项目的话把settings中的数据库配置、redis配置、celery配置修改成自己的ip 和端口，注意，这里我使用的celery是在同一台电脑上的，如果要在不同的电脑上实现celery，一定要安装虚拟环境，并且pip install celery , 而且要有redis.如果有问题可以百度或者联系我。

如果要部署的话要安装uwsgi。

Ubuntu中要安装并配置nginx，把uwsgi和nginx联接。在项目中为了负载均衡，我创建了两个uwsgi。Nginx负责返回静态文件，uwsgi负责返回动态文件。具体部署配置可以查阅百度，csdn，博客园，同时也可以通过邮箱与我取得联系。

我在nginx的配置文件中配置了静态文件的保存目录，这里需要使用python manag.py colectstatic 这个命令，会把所有的项目中所使用的静态文件放入我新建的目录中。这个目录可以自己定义。

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Here I open source this project, this project personally feel need to add a lot of things, and also need to optimize the project. I hope my friends in git can help me revise and mend this project. I really appreciate it.

Digression: Plog the whole project is done in Python. Why did you choose Python? I learned Python, haha. Actually, this is only part of the reason. I use Python because its code is simple and easy to read. But c has the advantage of being extremely fast, and the object that c deals with is the hardware. One of the Python interpreters is written in ac. By the way, one reason is that there are many Python interpreters, and one that works better in Java. By the way, the interpreter written in c does not support multithreading, and its multithreading is cosmetic. What is called representation is pseudo-multithreading. For example, your CPU has 100 cores, a bunker configuration, but when you compile Python's multi-threaded code with the c interpreter and execute it, you'll find that it USES only one core, and the other 99 cores are all idle. The reason for this is that when you write the c interpreter, you leave a GIL lock. You can tell what baidu GIL is. But can also be integrated into the c code to implement multithreaded, you know, Python is glue language, any language can be stained with Python, so, write a c code, and then dip the multi-threaded Python code, Python can realize multithreading, join the Python code you write is 20 thread, then used by the CPU core is 20, a will not less.

With a little bit of Python history, let's go on to describe Plog, let's go on to describe the whole framework of Plog.

The website framework I use is

1. Django1.11, build model, view function and template

2. The database that stores data is MySQL, which stores data

3.Python is version 3.5.2

4. The development environment is Ubuntu16.04.4

5. The cache database used is redis, to cache data and optimize website performance

6. The server for asynchronous processing is celery. Achieve asynchronous function, optimize website performance

7. Use the nginx and uwsgi connection to deploy the site

These are all the tools that the site currently USES. Originally intended to add a fastdfs file storage server, but due to the personal front-end technology is not enough to play the rich text editor to upload pictures, temporarily this function. However, I have configured FDFS and haystack search engine framework in the Settings. Py file in the project directory.

If you want to use this project to the database configuration Settings, redis configuration, celery configuration changes into your own IP and port, note that here I use celery is on the same computer, to realize the celery on different computers, must install a virtual environment, and PIP install celery, and have the redis. Can baidu or contact me if you have any questions.

Install uwsgi if you want to deploy.

To install and configure nginx in Ubuntu, connect uwsgi to nginx. In the project I created two uwsgi for load balancing. Nginx is responsible for returning static files, and uwsgi is responsible for returning dynamic files. For the specific deployment and configuration, I can refer to baidu, CSDN and blog garden(chinese website), and contact me through email.

I configured the save directory for static files in nginx's configuration file, using python manag.py colectstatic, which puts all the static files used in the project into my new directory. This directory can be defined by itself.