djang-celery

一.安装django-celery

1.1 安装django-celery之前需先安装Celery，安装的包的版本不是越新越好，建议安装Celery的版本为4.0.0以下，否则可能存在兼容性问题．如果pip官方源不能安装，可以使用aliyun的pip源

```
pip install celery==4.0.0  -i http://mirrors.aliyun.com/pypi/simple/ --trusted-host mirrors.aliyun.com

pip install django-celery==3.2.2  -i http://mirrors.aliyun.com/pypi/simple/ --trusted-host mirrors.aliyun.com

pip install redis==2.10.6  -i http://mirrors.aliyun.com/pypi/simple/ --trusted-host mirrors.aliyun.com
```

二.在django项目配置文件settings.py中配置celery.

2.1 加入以下参数：

```
import djcelery
#引入django-celery包
djcelery.setup_loader()
#当项目运行时，celery会去查看installd_apps下包含的所有app目录中的task.py文件，并
找到标记为task的方法，将他们注册成为Celery task.
from celery import Celery, platforms
BROKER_URL = 'redis://127.0.0.1:6379'
#指定消息中间件所在位置
CELERY_RESULT_BACKEND = 'redis://127.0.0.1:6379'
#指定任务执行结果的存储位置
platforms.C_FORCE_ROOT = True
#使celery可以在root下启动
CELERY = Celery(__file__, broker=BROKER_URL, backend=CELERY_RESULT_BACKEND)
```

2.2 修改INSTALLED_APP在其中加入djcelery
```
INSTALLED_APPS = [
    ...
    ...
    'djcelery',
]
```

三.在APP目录下创建Task.py

```
import os
import sys
from django.conf import settings
import time
app = settings.CELERY
@app.task
def f1():
    time.sleep(10)
    print("heelo!")
    return "hello return!"
```

四.在views.py中添加要异步执行的任务代码.

```
from __future__ import unicode_literals
from index.task import f1

def celery_index(request):
    r = f1.delay()
    print(r)
    return HttpResponse("this is index page!")
```

五.启动项目
```
(proj_b) [root@nfs webadmins]# python manage.py  runserver 0.0.0.0:8901
#启动Django项目

(proj_b) [root@nfs webadmins]# python manage.py  celery worker -c 4 --loglevel=info
#启动Celery
```

六.验证
6.1 请求URL http://172.16.70.233:8901/celery_index/

6.2 验证celery异步任务执行

```
[2019-07-09 03:51:17,911: WARNING/MainProcess] celery@nfs ready.


[2019-07-09 03:51:21,731: INFO/MainProcess] Received task: index.task.f1[af11f9e9-6a73-41af-9c59-0e22dd357343]
[2019-07-09 03:51:22,753: WARNING/Worker-4] heelo!
[2019-07-09 03:51:22,770: INFO/MainProcess] Task index.task.f1[af11f9e9-6a73-41af-9c59-0e22dd357343] succeeded in
92991s: 'hello return!'
[2019-07-09 03:51:26,223: INFO/MainProcess] Received task: index.task.f1[631fccfd-b45f-4dc3-9cd3-61d40c8dc850]
[2019-07-09 03:51:27,225: WARNING/Worker-2] heelo!
[2019-07-09 03:51:27,239: INFO/MainProcess] Task index.task.f1[631fccfd-b45f-4dc3-9cd3-61d40c8dc850] succeeded in
191096s: 'hello return!'
```

综上django-celery异步任务已成功配置！