

```
# -*- encoding: utf-8 -*-
from flask import Flask
from celery import Celery
from flask_mail import Mail, Message

app = Flask(__name__) # type:Flask

app.config['CELERY_BROKER_URL'] = 'redis://127.0.0.1:6379/0'
app.config['CELERY_RESULT_BACKEND'] =
'redis://127.0.0.1:6379/1'

# 创建celery实例
celery_app = Celery(
    app.name,
    broker=app.config['CELERY_BROKER_URL'],
    backend=app.config['CELERY_RESULT_BACKEND']
)

# 配置 发送邮箱
app.config.update(
    DEBUG=True,
    MAIL_SERVER='smtp.163.com', # 服务器地址
    MAIL_PROT=25, # 邮件服务器端口
    MAIL_USE_TLS=True, # 使用tls 安全协议
    MAIL_USERNAME='denhu2908588789@163.com', # 发送邮件邮箱--
    你的
    MAIL_PASSWORD='', # 密码 --- 授权码
)
# 为Celery同步Flask上的配置
celery_app.conf.update(app.config)

mail = Mail(app)

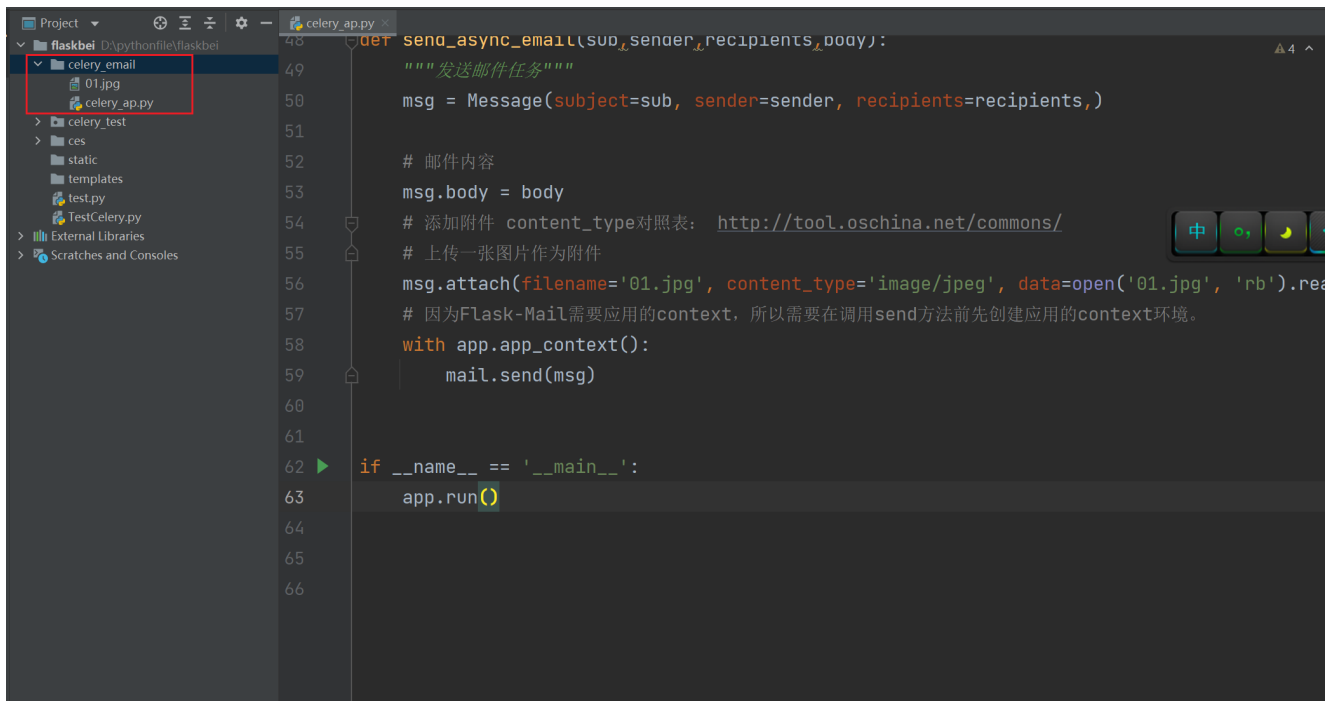
@app.route('/')
def hello_world():
```

```
# 调用任务，将任务加入任务队列
send_async_email.delay(
    '来自flask',
    app.config['MAIL_USERNAME'],
    ['denhu2908588789@163.com'],
    'celery 异步发送邮件'
)
return 'Hello World!'
```

```
@celery_app.task
def send_async_email(sub,sender,recipients,body):
    """发送邮件任务"""
    msg = Message(subject=sub, sender=sender,
recipients=recipients,)

    # 邮件内容
    msg.body = body
    # 添加附件 content_type对照表:
http://tool.oschina.net/commons/
    # 上传一张图片作为附件
    msg.attach(filename='01.jpg', content_type='image/jpeg',
data=open('01.jpg', 'rb').read())
    # 因为Flask-Mail需要应用的context，所以需要在调用send方法前先
    创建应用的context环境。
    with app.app_context():
        mail.send(msg)

if __name__ == '__main__':
    app.run()
```



==启动命令==

```
celery -A celery_ap.celery_app worker -l info --pool=solo
```

这里注意一点: `celery_ap.celery_app`指的是`celery_ap`文件中的`celery`实例对象

如果在结合`flask`操作启动中未指明, 那么便会出现非常经典的
`AttributeError: 'Flask' object has no attribute 'user_options'`

```
celery_ap.py
1  # -*- encoding: utf-8 -*-
2  from flask import Flask
3  from celery import Celery
4  from flask_mail import Mail, Message
5
6  app = Flask(__name__) # type: Flask
7
8
9  app.config['CELERY_BROKER_URL'] = 'redis://127.0.0.1:6379/0'
10 app.config['CELERY_RESULT_BACKEND'] = 'redis://127.0.0.1:6379/1'
11
12 # 创建celery实例
13 celery_app = Celery(
14     app.name,
15     broker=app.config['CELERY_BROKER_URL'],
16     backend=app.config['CELERY_RESULT_BACKEND']
17 )
18
19
```

启动效果

```
(flask_bei) D:\pythonfile\flaskbei\celery_email>celery -A celery_ap.celery_app worker -l info --pool=solo
----- celery@LAPTOP-QC5E15HN v5.2.7 (dawn-chorus)
-----
*****
***** Windows-10-10.0.19041-SP0 2022-10-29 13:47:43
*** --- * ---
** [config]
** .> app: celery_ap:0x1a62fad6708
** .> transport: redis://127.0.0.1:6379/0
** .> results: redis://127.0.0.1:6379/1
*** --- * ---
** .> concurrency: 8 (solo)
*****
** .> task events: OFF (enable -E to monitor tasks in this worker)
*****
[queues]
.> celery exchange=celery(direct) key=celery

[tasks]
. celery_ap.send_async_email

[2022-10-29 13:47:43, 327: WARNING/MainProcess] D:\EVNS\flask_bei\lib\site-packages\celery\app\utils.py:206: CDeprecati
onWarning:
  The 'CELERY_RESULT_BACKEND' setting is deprecated and scheduled for removal in
  version 6.0.0. Use the result_backend instead
  alternative=f'Use the {_TO_NEW_KEY[setting]} instead')
[2022-10-29 13:47:43, 328: WARNING/MainProcess] Please run `celery upgrade settings path/to/settings.py` to avoid these
warnings and to allow a smoother upgrade to Celery 6.0.
[2022-10-29 13:47:43, 335: INFO/MainProcess] Connected to redis://127.0.0.1:6379/0
[2022-10-29 13:47:43, 339: INFO/MainProcess] mingle: searching for neighbors
[2022-10-29 13:47:44, 355: INFO/MainProcess] mingle: all alone
[2022-10-29 13:47:44, 363: INFO/MainProcess] celery@LAPTOP-QC5E15HN ready.
[2022-10-29 13:47:50, 150: INFO/MainProcess] Task celery_ap.send_async_email[b3b13500-a47c-4dfa-b3db-9ea54dc69553] rece
ived
```

触发效果

```
[2022-10-29 13:47:53, 413: WARNING/MainProcess] reply:
[2022-10-29 13:47:53, 413: WARNING/MainProcess]
[2022-10-29 13:47:53, 415: WARNING/MainProcess] b' 250 Mail OK queued as smtp9,DcCowACnZtaFvlxjuHf9HQ--.1
71\r\n'
[2022-10-29 13:47:53, 421: WARNING/MainProcess] reply: retcode (250); Msg: b' Mail OK queued as smtp9,DcCowACnZtaFvlxjuHf9HQ--.16583S3 1667022471'
[2022-10-29 13:47:53, 422: WARNING/MainProcess] data:
[2022-10-29 13:47:53, 422: WARNING/MainProcess]
[2022-10-29 13:47:53, 423: WARNING/MainProcess] (250, b' Mail OK queued as smtp9,DcCowACnZtaFvlxjuHf9HQ--.16583S3 1667022471')
[2022-10-29 13:47:53, 424: WARNING/MainProcess] send:
[2022-10-29 13:47:53, 424: WARNING/MainProcess]
[2022-10-29 13:47:53, 424: WARNING/MainProcess] 'quit\r\n'
[2022-10-29 13:47:53, 472: WARNING/MainProcess] reply:
[2022-10-29 13:47:53, 472: WARNING/MainProcess]
[2022-10-29 13:47:53, 474: WARNING/MainProcess] b' 221 Bye\r\n'
[2022-10-29 13:47:53, 480: WARNING/MainProcess] reply: retcode (221); Msg: b' Bye'
[2022-10-29 13:47:53, 483: INFO/MainProcess] Task celery_ap.send_async_email[b3b13500-a47c-4dfa-b3db-9ea54dc69553] succeeded in 3.327999999999952s: None
```