
django-rq-mail Documentation

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This project is not maintained anymore, it doesn't support latest changes from rq

django-rq-mail is a simple Python library based on [rq](#) to store emails sent by [Django](#) and process them in the background with workers.

As django-rq-mail is based on [rq](#), it's entirely backed by [Redis](#).

CHAPTER 1

Architecture

django-rq-mail adds new elements to enjoy **Sorted Sets** from **Redis**.

For the purpose of django-rq-mail, it implements the concept of `WaitingQueue` which delays the processing of a job with a timestamp.

The default behavior of `rq` is to process jobs via **BLPOP** which blocks the connection when there are no elements to pop from any of the given queues. With this behavior there is no way to delays the processing of a job and when it's failing `rq` pushes it in a failed queue. Of course, you can requeue this job later but there is no fallback mechanism.

In django-rq-mail you can define fallback steps (in seconds) to retry a job until it's not failing. When a job has been tested on each steps we reintroduce the default behavior of `rq` on pushing it in the failed queue.

Each steps will create a waiting queue and when a job is failing we take the current timestamp with the delta to retry it in the future.

This mechanism is possible with **ZADD** which adds a serialized job in the queue with a score and **ZREVRANGE-BYSCORE** to return all the elements in the sorted set with a score between max (current timestamp) and min.

As you may understood, we have dropped the default blocking behavior to replace it by a daemon which is running each seconds.

CHAPTER 2

Installation

1. Either check out the package from [GitHub](#) or it pull from a release via PyPI

```
pip install django-rq-mail
```

2. Add 'rq_mail' to your INSTALLED_APPS

```
INSTALLED_APPS = (  
    'rq_mail',  
)
```

to use the *rq_mail* command (via Django commandline) shipped by django-rq-mail.

This command is a minimal integration of *rq* into *Django* to launch the **Dispatcher**.

3. Define EMAIL_BACKEND

```
EMAIL_BACKEND = 'rq_mail.backends.RqBackend'
```

4. Define RQ_MAIL_EMAIL_BACKEND the backend used to send your emails, for example

```
RQ_MAIL_EMAIL_BACKEND = 'django.core.mail.backends.smtp.EmailBackend'
```


CHAPTER 3

Logging

RQ 0.3.3 uses standard Python's logging, this means you can easily configure `rqworker`'s logging mechanism in `django`'s `settings.py`. For example:

```
LOGGING = {
    'version': 1,
    'disable_existing_loggers': False,
    'formatters': {
        'rq_console': {
            'format': '%(asctime)s %(message)s',
            'datefmt': '%H:%M:%S',
        },
    },
    'handlers': {
        'rq_console': {
            'level': 'DEBUG',
            'class': 'rq.utils.ColorizingStreamHandler',
            'formatter': 'rq_console',
            'exclude': ['%(asctime)s'],
        },
    },
    'loggers': {
        'rq.worker': {
            'handlers': ['rq_console'],
            'level': 'DEBUG'
        },
    },
}
```


CHAPTER 4

Utilisation

Once you have installed it, you can run `python manage.py rq_mail` from your shell.

RQ_MAIL_PREFIX

The prefix used to name all queues created by django-rq-mail.

RQ_MAIL_MAIN_QUEUE

The name of the main queue.

RQ_MAIL_EMAIL_BACKEND

The email backend used to send emails when they are processed in the background.

RQ_MAIL_REDIS_HOST

The Redis host used to connect.

RQ_MAIL_REDIS_PORT

The Redis port used to connect.

RQ_MAIL_REDIS_DB

The Redis database used to connect.

RQ_MAIL_REDIS_PASSWORD

The Redis password used to connect.

RQ_MAIL_REDIS_URL

The Redis url used to connect.

RQ_MAIL_REDIS_SOCKET

The Redis socket used to connect.

RQ_MAIL_FALLBACK_STEPS

A simple list of timing to create waiting queues.

You can define as much steps as you want, each will be transformed to a queue. So if you define 10 steps, you will allow a message to fail 10 times until it will go in the failed queue.

CHAPTER 6

Reference

For further details see the reference documentation:

- [genindex](#)
- [modindex](#)
- [search](#)

CHAPTER 7

Issues

For any bug reports and feature requests, please use the [Github issue tracker](#).