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# **django-crontab-monitor**

***Release 0.0.10***

**ho600 Ltd.**

**Jul 25, 2023**



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**CHAPTER  
ONE**

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**OVERVIEW**

Store crontab-based functions in Django Model so that users can add/disable/delete crontab-based functions on API service rather than login the server to deal with system crontab configuration.

The minimal interval of the executing function is one minute as Linux crontab.



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CHAPTER  
TWO

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## REQUIREMENTS

- Python3-3.5+
- Croniter-0.3+
- Django-2.2+
- django-guardian-2.1+
- Django-filter-2.2+
- djangorestframework-3.10+
- djangorestframework-filters-1.0+

### 2.1 Optional

- django-crontab-0.7+



## INSTALLATION

```
pip install `<django-crontab-monitor-path>`
```

Add ‘*crontab\_monitor*’ to your *INSTALLED\_APPS* setting:

```
INSTALLED_APPS = [  
    ...  
    'guardian',  
    'rest_framework',  
    'django_filters',  
    'rest_framework_filters',  
    'crontab_monitor',  
]
```

### 3.1 Execute *single\_entry\_point\_of\_management* by crontab of Linux

```
* * * * * user /path/virtualenv/bin/python3 /path/your_project/manage.py \  
    single_entry_point_of_management parameter1 parameter2
```

### 3.2 Execute *single\_entry\_point\_of\_crontab* by django-crontab

```
CRONJOBS = [  
    ('* * * * *',  
     'crontab_monitor.crontabs.single_entry_point_of_crontab',  
     ['arg1'], {'key1': 'value1'}),  
]
```

### 3.3 Execute *single\_entry\_point\_of\_view* by some monitor services(ex: nodeping)

Put a path into urlpatterns in urls.py:

```
urlpatterns = [  
    ...
```

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```
    path('what_ever_you_want/', include('crontab_monitor.urls'), name='crontab_monitor  
    ↵'),  
]
```

Then add a check with url: [https://your\\_domain/what\\_ever\\_you\\_want/single\\_entry\\_point\\_of\\_view/?me=nodeping](https://your_domain/what_ever_you_want/single_entry_point_of_view/?me=nodeping) into nodeping service.

### 3.4 Crontab-based function example: crontab\_monitor.crontabs.check\_outside\_

After ./manage.py migrate crontab\_monitor, it will create an Inspection object for you. And we can remove “#” from this inspection.cron\_format to enable it.

```
Python 3.7.5 (default, Dec  8 2019, 11:41:26)  
Type 'copyright', 'credits' or 'license' for more information  
IPython 7.13.0 -- An enhanced Interactive Python. Type '?' for help.  
  
In [1]: from crontab_monitor.models import *  
In [2]: insp = Inspection.objects.get(name='check_outside_web',  
...:                               note='An example for showing a well cron_  
function')  
In [3]: vars(insp)  
{'_state': <django.db.models.base.ModelState at 0x10d8a4490>,  
'id': 1,  
'cron_format': '#* * * * *',  
'name': 'check_outside_web',  
'function_option_id': 5,  
'function_note': 'An example for showing a well cron function',  
'kwargs': 'web_urls=https://www.google.com/|https://www.ho600.com/'}  
In [4]: insp.cron_format = insp.cron_format.replace('#', '')  
In [5]: insp.save()
```

If you want to disable this example crontab-based function, then just put a prefix “#” in inspection.cron\_format.

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**CHAPTER  
FOUR**

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**INDICES AND TABLES**

- genindex
- modindex
- search