
django-signalcontrol

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ABOUT

django-signalcontrol is a reusable django application that adds dynamic control to signals.

With `signal_control` added to a signal, the signal can be enabled (default) or disabled from the django admin. An entry for the signal is added to the `SignalControl` table that includes a boolean field to enable/disable the signal. When a signal is disabled it will not execute when dispatched through the receiver, such as `post_save`.

1.1 Requirements & Dependencies

django-signalcontrol is built on Python 3.10.x and Django 4.2.x. For a full list of packages and requirements, please see the `install_requires` in the `pyproject.toml` file.

INSTALLATION

The django-signalcontrol package is available on Python Package Index (PyPI) and can be installed via pip with the following command:

```
pip install django-signalcontrol
```

To use django-signalcontrol in your project, add 'djangoaddicts.signalcontrol' to INSTALLED_APPS in your settings.py file.

```
INSTALLED_APPS = [  
    ...  
    'djangoaddicts.signalcontrol',  
]
```


FEATURES

django-signalcontrol include automatic signal detection, a decorator for adding signalcontrol to signals, and an admin interface for managing signalcontrol.

3.1 Signal Detection

Signals are scanned automatically when django starts. Any signal with `signal_control` applied will be detected and automatically added (if not already present) in the `SignalControl` database table. An info message will be printed when django starts if a new signal with `signal_control` is discovered. It will look like this:

INFO: registering `msg_after_my_model_save` in `my_app` with `SignalControl`

In this example, `'msg_after_my_model_save'` is the name of the signal, and `'my_app'` is the name of the django app.

3.2 The `signal_control` Decorator

`SignalControl` can be added to a signal with the provided decorator. In the `signals.py` file, import the `signalcontrol` decorator and add the `signal_control` decorator to the line directly above the signal definition. Example:

```
from signalcontrol.decorators import signal_control

@receiver(post_save, sender=MyCoolModel)
@signal_control
def msg_after_my_model_save(sender, instance, created, **kwargs):
    """ some signal """
    print('you just saved an instance of MyCoolModel')
```

3.3 Admin Interface

An django admin interface for django-signalcontrol is available to set signals to enabled or disabled. This displays all model signals that can be controlled, and lists the application, model, signal receiver and signal name. Additionally, full search is available and filters are available for each field. Signals can be enabled or disabled individually or in bulk.

HomeSignal ControlSignal controls

Select signal control to change

ADD SIGNAL CONTROL +

Q

Search

Actions

✓ enable signal

disable signal

Delete selected signal controls

Go

2 of 3 selected

	SIGNAL NAME	SIGNAL TYPE	MODEL NAME	APP NAME	ENABLED
☐					
☒	post_save_message_mycoolmodelthree	post_save	MyCoolModelThree	demo	✓
☒	post_save_message_mycoolmodeltwo	post_save	MyCoolModelTwo	demo	✓
☐	post_save_message_mycoolmodelone	post_save	MyCoolModelOne	demo	✓

3 signal controls

FILTER

By app name

All

demo

By model name

All

MyCoolModelOne

MyCoolModelThree

MyCoolModelTwo

By signal name

All

post_save_message_mycoolmode...

post_save_message_mycoolmode...

post_save_message_mycoolmode...

By signal type

All

post_save

By enabled

All

Yes

No

INTERNALS

The documentation below details some of the internal workings of django-signalcontrol and its components. This documentation is automatically generated from the source code. See the source code in github for full details.

<https://github.com/djangoaddicts/django-signalcontrol>

4.1 Models

class `djangoaddicts.signalcontrol.models.SignalControl(*args, **kwargs)`
table to track status of a signal used in the `signal_control` decorator

exception `DoesNotExist`

exception `MultipleObjectsReturned`

VERSION HISTORY

Release	Details
0.1.2	refactoring repository for djangoaddicts
0.1.1	updating pypi action
0.1.0	updates for django 3; code cleanup
0.0.6	adding support for user_logged_in/user_login_failed/user_logged_out signals
0.0.5	fixed bug causing OperationalError on migrate
0.0.4	project structure updates
0.0.3	bug fixes and code cleanup
0.0.2	added documentation
0.0.1	initial release

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Version 3, 29 June 2007

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```
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```

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