
django-signalcontrol Documentation

Release 0.0.1

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1.1 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`.

See details on django-extensions features on the [Features](#) page

1.1.1 Requirements & Dependencies

django-signalcontrol is built on Python 3.x and Django>=2.2. For a full list of packages and requirements, please see the `requirements.txt` file.

<https://github.com/davidslusser/django-signalcontrol/blob/master/requirements.txt>

1.2 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
```

1.2.1 Adding django-signalcontrol to your django project

To use django-signalcontrol in your project, add `'signalcontrol'` to `INSTALLED_APPS` in your `settings.py` file and run `manage.py migrate signalcontrol` to create the required database structure.

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

1.2.2 Enabling signal control on a model signal

SignalControl can be added to a model signal via a provided decorator. In the signal.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')
```

1.3 Features

This document details the features currently available in django-signalcontrol.

1.3.1 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.

1.3.2 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')
```

1.3.3 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.

Home · Signal Control · Signal controls

Select signal control to change

ADD SIGNAL CONTROL +

Delete selected signal controls
enable signal
disable signal

☐
☒
☒
☐

2 of 3 selected

SIGNAL NAME	SIGNAL TYPE	MODEL NAME	APP NAME	ENABLED
post_save_message_mycoolmodelthree	post_save	MyCoolModelThree	demo	<input checked="" type="checkbox"/>
post_save_message_mycoolmodeltwo	post_save	MyCoolModelTwo	demo	<input checked="" type="checkbox"/>
post_save_message_mycoolmodelone	post_save	MyCoolModelOne	demo	<input type="checkbox"/>

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

1.4 Version History

Release	Details
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

1.4.1 Source Code

Source code for django-signalcontrol is available on github: <https://github.com/davidslusser/django-signalcontrol/>

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Version 2.0, January 2004

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