django-signalcontrol Documentation

Release 0.0.1

David Slusser

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CHAPTER 1

Contents

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 by 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-signal control.

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

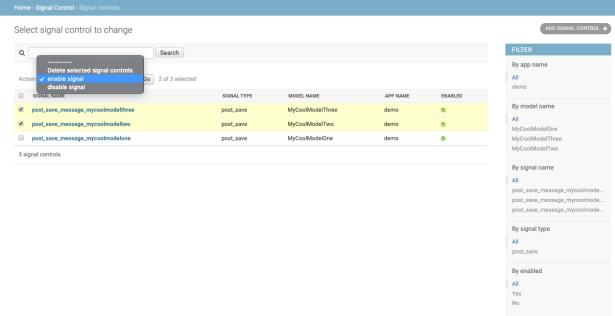
@receiver(post_save, sender=MyCoolModel)
@signal_control
def msg_after_my_model_save(sender, instance, created, **kwargs):
    """ some signal """
    print('you just saved an instance of MyCoolModel')
```

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



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/

1.5 LICENSE

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Version 2.0, January 2004

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1.4. Version History

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