
django-modelsubscription Documentation

Release 0.0.1

Jesús Espino

May 23, 2012

CONTENTS

1	Installation	3
2	Configuration	5
3	Usage	7
4	Settings	9
5	API	11
5.1	Models	11
5.2	Handlers	11
	Python Module Index	13

django-modelsubscription allows you to subscribe users or emails to your Django models modify events

INSTALLATION

```
pip install django-modelsubscription
```


CONFIGURATION

Add `modelsubscription` and `django.contrib.sites` to your `INSTALLED_APPS`

```
INSTALLED_APPS = (  
    'django.contrib.sites',  
    'modelsubscription'  
)
```


USAGE

Add to your subscribable models the mixin `models.SubscribableMixin` as parent class

```
from modelsubscription.models import SubscribableMixin
from django.db import models

class MyModel(models.Model, SubscribableMixin):
    ...
```

To subscribe an user to an object use `models.SubscribableMixin.subscribe_user`

```
obj = MyModel.objects.get(pk=1)
obj.subscribe_user(request.user, 'email')
```

To subscribe an email to an object use `models.SubscribableMixin.subscribe_email`

```
obj = MyModel.objects.get(pk=1)
obj.subscribe_email('foo@bar.com', 'email')
```

To unsubscribe an user to an object use `models.SubscribableMixin.unsubscribe_user`

```
obj = MyModel.objects.get(pk=1)
# Unsubscribe one type of subscription
obj.unsubscribe_user(request.user, 'email')
```

```
# Unsubscribe to all types of subscription
obj.unsubscribe_user(request.user)
```

To unsubscribe an email to an object use `models.SubscribableMixin.unsubscribe_email`

```
obj = MyModel.objects.get(pk=1)
# Unsubscribe one type of subscription
obj.unsubscribe_email('foo@bar.com', 'email')
```

```
# Unsubscribe to all types of subscription
obj.unsubscribe_email('foo@bar.com')
```

To run the subscription handlers you can do it automatically saving the object if `settings.SUBSCRIPTION_RUN_ON_CHANGE` is `True`

```
obj = MyModel.objects.get(pk=1)
obj.save()
```

To run the subscription handlers you can do it manually running

```
obj = MyModel.objects.get(pk=1)
# for all subscriptions
for subscription in obj.subscriptions.all():
    subscription.run(obj)

# for one subscriptions
obj.subscriptions.all()[1].run(obj)
```

By default `modelsubscription.handlers.emailhandler` will render `modelsubscription/email/subject.txt` and `modelsubscription/email/body.txt` for the email.

SETTINGS

There are a couple of editable settings

SUBSCRIPTION_EMAIL_FROM

Default `settings.DEFAULT_FROM_EMAIL`

Type `str`

The email address used to send subscription messages from.

SUBSCRIPTION_RUN_ON_CHANGE

Default `True`

Type `boolean`

Run automatically the subscriptions handlers on subscribable objects save.

SUBSCRIPTION_TYPES

Default `{ 'email': { 'handlers': 'models.subscription.handlers.emailhandler.EmailHandler', 'extra_args': {} }, 'db': { 'handler': 'models.subscription.handlers.dbhandler.DbHandler', 'extra_args': {} } }`

Type `dict`

Dictionary defining the subscription types

API

5.1 Models

```
class modelsubscription.models.SubscriptableMixin (*args, **kwargs)
    Subscriptable Mixin to aggregate subscription functionality to a any model

    save (*args, **kwargs)
        Save the object, and run the subscriptions if SUBSCRIPTION_RUN_ON_CHANGE is set to True

    subscribe_email (email, typ)
        Create a subscription of the typ type to this object for a email

    subscribe_user (user, typ)
        Create a subscription of the typ type to this object for a user

    unsubscribe_email (email, typ=None)
        Remove a subscription of the typ type to this object for a email
        If typ is None, remove all subscriptions of this email

    unsubscribe_user (user, typ=None)
        Remove a subscription of the typ type to this object for a user
        If typ is None, remove all subscriptions of this user

class modelsubscription.models.Subscription (*args, **kwargs)
    Subscription objects store subscription from user or email to objects
    Every subscription have a type with his own handler

    run (obj, **kwargs)
        Run the handler of the subscription type for the obj param

class modelsubscription.models.SubscriptionEvent (*args, **kwargs)
    Model to store events when dbhandler is runned
```

5.2 Handlers

```
class modelsubscription.handlers.dbhandler.DbHandler
    DB Subscription Handler, store data in a django model when is runned

    classmethod run (subscription, obj, **kwargs)
        Store in the SubscriptionEvent model a reference to the subscription, the object, and a json of the kwargs
```

class `modelsubscription.handlers.emailhandler.EmailHandler`

Email Subscription Handler, send an email when is runned

classmethod `run (subscription, obj, **kwargs)`

send an email to the `subscription.email` or the `subscription.user.email`

Generate the email text from the templates `modelsubscription/email/subject.txt` and `modelsubscription/email/body.txt` with `**kwargs` and `invitation` in the context.

class `modelsubscription.handlers.subscriptionhandlerbase.SubscriptionHandlerBase`

Abstract class for Subscription Handlers

classmethod `run (subscription, obj, *args)`

Abstract method

Made by [Kaleidos](#).

PYTHON MODULE INDEX

m

modelsubscription.handlers.dbhandler,
 ??
modelsubscription.handlers.emailhandler,
 ??
modelsubscription.handlers.subscriptionhandlerbase,
 ??
modelsubscription.models, ??