
django-sluggable Documentation

Release dev

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django-sluggable is a library to manage your slugs and redirect old slugs to a new one. With this library, you will have the plain history of your operations.

You can report bugs and discuss features on the [issues page](#).

REFERENCE

For further details see the reference documentation:

1.1 Installation

Either check out `django-sluggable` from [GitHub](#) or to pull a release off [PyPI](#)

```
pip install django-sluggable
```

1.2 Usage

1.2.1 Integrated in an application

To use `django-sluggable` we will provide a basic application in this section.

Consider having the following `models.py`:

```
# users/models.py

class User(models.Model):
    username = models.CharField(max_length=150)
```

Now you want urls like `/users/<username>` but also keeping your SEO when a specific user is changing his username: we want a permanent redirection between the old username and the new one.

In `models.py`, we will define a decider model which will store all usernames:

```
# users/models.py
from sluggable.models import Slug

class UserSlug(Slug):
    class Meta:
        abstract = False
```

In the case of our `User` class the slug is basically the username of the user, so we will change the type of the username field.

```
# users/models.py
from sluggable.fields import SluggableField
```

```
class User(models.Model):
    username = SluggableField(decider=UserSlug)

    def __unicode__(self):
        return self.username
```

Now you have your sluggable model, let's play with the API, by adding our first member in the console:

```
In [1]: from users.models import User, UserSlug
In [2]: user = User.objects.create(username="thoas")
```

When you are creating a new `User` it will also create a linked model by using the `contenttypes` framework of Django:

```
In [3]: user_slug = UserSlug.objects.get(slug="thoas")
In [4]: user_slug.redirect
False
```

With this `UserSlug` you can now track every username changes by your users.

Remember your first created user right? We will change its username:

```
In [5]: user.username = 'oleiade'
In [6]: user.save()
```

Your new username is now your primary username and you will be able to provide a permanent redirection between the old one and new one:

```
In [7]: user_slug = UserSlug.objects.get(slug="oleiade")
In [8]: user_slug.redirect
False
In [9]: old_slug = UserSlug.objects.get(slug="thoas")
In [10]: old_slug.redirect
True
```

If you are accessing an old slug, you can also retrieve the current one at any time:

```
In [11]: old_slug.current
<Slug thoas for oleiade>
```

If you do not have a `Slug` instance, no problem you can use the default manager for that:

```
In [12]: Slug.objects.get_current(user)
<Slug oleiade for oleiade>
```

1.2.2 Work with class-based views

Now you know how to manipulate your users, we will add real world examples in an real application.

Let's begin with the `views.py` file.

In this section, we will only use `Class-based views` so if you are not familiar with them, go check them they are awesome:

```
# users/views.py
from django.views import generic

from users.models import User
```

```
class UserDetailView(generic.Detail):
    model = UserSlug
    context_object_name = 'slug'
    slug_field = 'username'
    template_name = 'users/detail.html'
```

```
# users/urls.py
from users import views
```

```
urlpatterns = patterns('',
    url(r'^users/(?P<username>\w+)/$',
        views.UserDetailView.as_view(),
        name='user_detail'),
)
```

So we have defined a pretty standard view to show an user with its username, so boring duh?

The interesting part is the redirection provided by [django-sluggable](#), let's rewrite `UserDetailView.get`:

```
# users/views.py
from django.views import generic
from django.shortcuts import redirect

from users.models import User

class UserDetailView(generic.Detail):
    model = UserSlug
    context_object_name = 'user'
    slug_field = 'username'
    template_name = 'users/detail.html'

    def get(self, request, *args, **kwargs):
        obj = self.get_object()

        # The slug retrieved is a redirection to a new one
        if obj.redirect:

            # Retrieve the current slug used
            current = obj.current

            return redirect('user_detail', username=current.slug)

        # Retrieve the real object affected to the slug
        self.object = obj.content_object

        context = self.get_context_data(object=self.object)

        return self.render_to_response(context)
```

Wait? `UserDetailView.get` is big.

Let's rewrite it with [django-multiurl](#) to dispatch our slug management between multiple views.

With this new method, we don't have to rewrite `UserDetailView.get` anymore:

```
# users/views.py
```

```
from django.views import generic

from users.models import User, UserSlug

class UserDetailsView(generic.Detail):
    model = User
    context_object_name = 'slug'
    slug_field = 'username'
    template_name = 'users/detail.html'

class UserRedirectView(generic.RedirectView):
    permanent = True

    def get_redirect_url(self, username):
        slug = get_object_or_404(UserSlug.objects.filter(redirect=True), slug=username)

        return reverse('user_detail', args=(slug.current.slug,))
```

But we have to rewrite our `urls.py` file to use `django-multiurl`:

```
# users/urls.py

from multiurl import multiurl, ContinueResolving

from django.http import Http404

from users import views

urlpatterns = patterns('',
    multiurl(
        url(r'^users/(?P<username>\w+)/$',
            views.UserDetailView.as_view(),
            name='user_detail'),
        url(r'^users/(?P<username>\w+)/$',
            views.UserRedirectView.as_view(),
            name='user_redirect'),
        catch = (Http404, ContinueResolving)
    )
)
```

1.2.3 Hidden features

How know if the slug has changed?:

```
In [1]: user = User.objects.create(username="thoas")
In [2]: user.slug_changed
False
In [3]: user.slug = 'oleiade'
In [4]: user.slug_changed
True
```

How to know if a slug is available or not?:

```
In [1]: user = User.objects.create(username="thoas")
In [2]: UserSlug.objects.is_slug_available('thoas')
False
In [3]: user.slug = 'oleiade'
```

```
In [4]: user.save()
In [5]: UserSlug.objects.is_slug_available('thoas')
False
```

If you are providing an optional `obj` parameter which has the slug:

```
In [6]: UserSlug.objects.is_slug_available('thoas', obj=user)
True
```

Restore previous slug and remove redirections:

```
In [7]: UserSlug.objects.update_slug(user, 'thoas', erase_redirects=True)
```

1.3 Architecture

...

1.4 Indices and tables

- *genindex*
- *modindex*
- *search*

ISSUES

For any bug reports and feature requests, please use the [Github issue tracker](#).