
django-anylink Documentation

Release 0.0.1

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Apr 29, 2022

Contents

1	What is django-anylink	3
2	Contents	5
2.1	Installation	5
2.2	TinyMCE Integration	5
2.3	Configuration	6
2.4	Usage	6
2.5	Writing your own link extension	7
2.6	Contribution	8
3	Indices and tables	9

Generic linking in Django. Includes support for RichText editors like TinyMCE.

What is django-anylink

django-anylink is a generic linking module for Django. Using this module, you can create links for many usecases. You'll find yourself just using the `AnyLinkField` to create links to different Django models or external urls. You don't have to take care for changing urls. `AnyLink` resolves links on request.

django-anylink provides a `Link` database, an model field and some handy widgets for the daily use.

Besides that, *django-anylink* is easy extendable. By default, the module provides external urls and model links wich have a `get_absolute_url` method.

2.1 Installation

To install *django-anylink* just use your preferred Python package installer:

```
pip install django-anylink
```

Add *anylink* to your Django settings

```
INSTALLED_APPS = (  
    # other apps  
    'anylink',  
)
```

Now, you should define at least one link extension, for example external links.

```
ANYLINK_EXTENSIONS = (  
    'anylink.extensions.ExternalLink',  
)
```

django-anylink auto-creates models for those migrations. To prevent them landing in Python's site packages directory, explicitly define (and create!) a module for them:

```
MIGRATION_MODULES = {  
    'anylink': 'migrations.anylink',  
}
```

Details on how to use *django-anylink* in your Django application can be found in the [Configuration](#) section.

2.2 TinyMCE Integration

django-anylink comes with a TinyMCE plugin already integrated. To use it you only have to install *django-tinymce* according to its documentation and enable the *anylink* plugin.

```
TINYMCE_DEFAULT_CONFIG = {
    'theme': 'advanced',
    'plugins': 'anylink',
    'theme_advanced_buttons1': (
        'anylink',
    ),
    'anylink_url': '/anylink/anylink/',
}
```

2.3 Configuration

Luckily you don't have to configure that much to use *django-anylink*.

2.3.1 ANYLINK_EXTENSIONS

To add a new link target, you have to update the `ANYLINK_EXTENSIONS` setting.

This directive is a list of linkable target (external urls, Django models with `get_absolute_url` methods and so on). Every entry can be a single class path or a tuple consisting of a class path and a configuration dictionary.

ExternalLink

This extension provides a external url field. No other configuration is needed.

```
# Example with external links
ANYLINK_EXTENSIONS = (
    'anylink.extensions.ExternalLink',
)
```

ModelLink

The `ModelLink` extension provides a foreign key the configured model. It is required that the model is registered in the Django admin interface. Also, the model needs to have a `get_absolute_url` method.

```
# Example with model links with MyModel
ANYLINK_EXTENSIONS = (
    ('anylink.extensions.ModelLink', {'model': 'myapp.MyModel'}),
)
```

For details on writing your own extensions, please see the *Writing your own link extension* section.

Link Multiusage

To use anylink instance multiple times set `ANYLINK_ALLOW_MULTIPLE_USE` to `True`

```
# Example with app using link multiple times
ANYLINK_ALLOW_MULTIPLE_USE = True
```

2.4 Usage

Before you can use *django-anylink*, you have to install the module and configure it. Please see *Installation* for more details.

2.4.1 Adding an link to your model

To add a link field to your model, just use the AnyLinkField

```
from django.db import models

from anylink.fields import AnyLinkField

class MyModel(models.Model):
    whatever = models.CharField(max_length=255)

    link = AnyLinkField()
```

Now, you have an link field in your model. This link field is a ForeignKey internally.

2.4.2 Get the link url and other attributes

Lets assume, you implemented your Django model like the example above. Here is a example, how you would access the attributes of the link.

```
url = obj.link.get_absolute_url() # URL to link.
name = obj.link.text # link text/link name
title = obj.link.title # title attribute of the link
target = obj.link.target # target of the link, for example _self or _blank
css_class = obj.link.css_class # optional css class
```

Hint: Please remember, only the `get_absolute_url` method and `target` always return a values. All other attributes (`text`, `title`, `css_class` can be blank).

Please see the example projects for more details.

2.5 Writing your own link extension

To extend *django-anylink* lets assume you have a Download model. This model doesn't have a `get_absolute_url` method. Theirfore you want to write your own link extension.

Lets have a look at the code first.

```
from django.core.urlresolvers import reverse

from anylink.extensions import BaseLink

class DownloadLink(BaseLink):
    def configure_model(self, model):
        # configure_model is called by django-anylink upon initialization.
        # We add a field to anylink model to keep the object reference.
        # Make sure the field is null-able, anylink will ensure its filled out
        # if the link type is set to DownloadLink.
        model.add_to_class(self.get_name(), models.ForeignKey(
            'myapp.Download', blank=True, null=True))

    def get_absolute_url(self, link):
        # Get the obj instance using the get_name method.
        obj = getattr(link, self.get_name())
        # return a reverse'd url or None if no obj is set.
        return obj and reverse('myurl', kwargs={'id': obj.pk}) or None
```

As you can see here, the Link extension has two important methods. The `configure_model` method and the `get_absolute_url` method. Please refer to the comments and the code for more details on this topic.

2.6 Contribution

If you like to contribute to this project please read the following guides.

2.6.1 Django Code

You have to install some dependencies for development and testing.

```
$ pip install -e .[tests]
```

Testing the code

django-anylink uses `py.test` for testing. Please ensure that all tests pass before you submit a pull request. `py.test` also runs PEP8 and PyFlakes checks on every run.

We created a Makefile to make some commands more easy to run.

This is how you execute the tests and checks from the repository root directory.

```
$ py.test
```

Or with the shortcut in the Makefile.

```
$ make tests
```

If you want to generate a coverage report, you can use the following command.

```
$ make coverage
```

If you want a coverage report with html output.

```
$ make coverage-html
```

Documentation

django-anylink uses Sphinx for documentation. You find all the sources files in the `docs/source` folder.

To update/generate the html output of the documentation, use the following command inside the `docs` folder.

```
$ make html
```

Please make sure that you don't commit the build files inside `docs/build`.

2.6.2 JavaScript Code

TBD

CHAPTER 3

Indices and tables

- genindex
- search