django-antispam Documentation

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Contents

Various anti-spam protection tools for django applications.

Documentation

1.1 Get started

The package can be installed using:

```
pip install django-antispam
```

Add the following settings:

```
INSTALLED_APPS += [
    'antispam',

  # 'antispam.akismet',
  # 'antispam.honeypot',
  # 'antispam.captcha',
]

# Akismet protection configuration (optional)

AKISMET_API_KEY = '<akismet api-key>'

AKISMET_SITE_URL = '<base site url>'

AKISMET_TEST_MODE = False

# reCAPTCHA default configuration (optional)

RECAPTCHA_SITEKEY = 'sitekey'

RECAPTCHA_SECRETKEY = 'secretkey'

RECAPTCHA_WIDGET = 'antispam.captcha.widgets.ReCAPTCHA'

RECAPTCHA_TIMEOUT = 5
```

```
RECAPTCHA_PASS_ON_ERROR = False
```

1.2 Usage

1.2.1 Honeypot field

Honeypot is a spam protection technique to detect and block automatic spam spiders on your website. Also known as
spamtrap technique.

See also:

You can read more about this technique at Wikipedia.

Form protection is very simple, just add a `HoneypotField` to your form:

```
from django import forms
from antispam.honeypot.forms import HoneypotField


class MyForm(forms.Form):
    name = forms.CharField()
    spam_honeypot_field = HoneypotField()
```

HoneypotField uses standard form validation behaviour. If spam submit was detected - `ValidationError` with
`spam-protection` code will be raised.

1.2.2 Akismet

Akismet is an advanced hosted anti-spam service aimed at thwarting the underbelly of the web. It efficiently processes
and analyzes masses of data from millions of sites and communities in real time.

See also:

You can read more at Akismet official website.

Use Akismet protection for your project:

```
from django import forms
from antispam import akismet


class MyForm(forms.Form):
    name = forms.CharField()
    email = forms.EmailField()

    comment = forms.TextField()

    def __init__(self, **kwargs):
        self.request = kwargs.pop('request', None)
```

```python
        super().__init__(**kwargs)

    def clean():
        if self.request and akismet.check(
            request=akismet.Request.from_django_request(self.request),
            comment=akismet.Comment(
                content=self.cleaned_data['comment'],
                type='comment',

                author=akismet.Author(
                    name=self.cleaned_data['name'],
                    email=self.cleaned_data['email']
                )
            )
        ):
            raise ValidationError('Spam detected', code='spam-protection')

        return super().clean()
```

1.2.3 CAPTCHA

CAPTCHA – Completely Automated Public Turing test to tell Computers and Humans Apart. We support CAPTCHA
implementation called **reCAPTCHA V2**.

reCAPTCHA V2

reCAPTCHA is a free service that protects your website from spam and abuse. reCAPTCHA uses an advanced risk
analysis engine and adaptive CAPTCHAs to keep automated software from engaging in abusive activities on your site.

See also:

You can read more at google reCAPTCHA official website.

To use reCAPTCHA protection in your project form, obtain keys *from Google
<https://www.google.com/recaptcha/admin>*, add them to SETTINGS:

```python
RECAPTCHA_SITEKEY = 'sitekey'

RECAPTCHA_SECRETKEY = 'secretkey'
```

and add ReCAPTCHA field:

```python
from django import forms
from antispam.captcha.forms import ReCAPTCHA

class MyForm(forms.Form):
    name = forms.CharField()
```

```
    captcha = ReCAPTCHA()
```

django-antispam package provides 2 widgets of reCAPTCHA:

- `antispam.captcha.widgets.ReCAPTCHA` - default reCAPTCHA v2 widget
- `antispam.captcha.widgets.InvisibleReCAPTCHA` - invisible reCAPTCHA widget

To display reCAPTCHA on website page, you should add reCAPTCHA script into the template:

```
{% load recaptcha %}

{% block head %}
    ...

    {% recaptcha_init %}
{% endblock %}
```

1.3 API

1.3.1 antispam

antispam.akismet

antispam.akismet.client

antispam.akismet.entities

antispam.akismet.utils

antispam.captcha

antispam.captcha.templatetags

antispam.captcha.templatetags.recaptcha

antispam.captcha.default_settings

antispam.captcha.forms

antispam.captcha.widgets

antispam.honeypot

antispam.honeypot.forms

antispam.honeypot.widgets

Indices and tables

- genindex