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# Django AllCaptcha

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This package allows you to easily integrate captcha services in your Django project.

Currently, it supports:

- HCaptcha
- Invisible HCaptcha
- Recaptcha V2 Checkbox
- Invisible Recaptcha V2
- Recaptcha V3



## INSTALLATION

First, install the package using pip:

```
pip install django-allcaptcha
```

Then, add `allcaptcha` to your Django `INSTALLED_APPS` list.

`django-allcaptcha` ships with Javascript. You need to run `collectstatic` when deploying to production.

By default, Hcaptcha will be used.

Set `CAPTCHA_PROVIDER` in your settings to override this.

For Hcaptcha, set your keys:

```
HCAPTCHA_SECRET_KEY  
HCAPTCHA_SITE_KEY
```

For Recaptcha V2:

```
RECAPTCHA_V2_SECRET_KEY  
RECAPTCHA_V2_SITE_KEY
```

And Recaptcha V3:

```
RECAPTCHA_V3_SECRET_KEY  
RECAPTCHA_V3_SITE_KEY
```

For all available options, see [Settings](#)





## TUTORIAL

Learn how to quickly setup allcaptcha in your Django templates.

First, you need to a Form that inherits from CaptchaFormMixin:

```
from django import forms
from allcaptcha.mixins import CaptchaFormMixin

class MySecureForm(CaptchaFormMixin, forms.Form)
    email = forms.EmailField()
```

Then, you're simply going to instantiate and include the form instance in your template context as usual.

In your template, you need to make sure you include the bundled Javascript like so:

```
{{ form.media.js }}
```

You should preferably include this right before the closing body tag after all other HTML elements have been rendered.

In your form tag, you need to render the Captcha challenge:

```
{% load allcaptcha_tags %}

<form method="post" action=".">
    {% csrf_token %}
    {{ form }}
    {% render_challenge %}
    <button type="submit">Send</button>
</form>
```

The render\_challenge template tag will render a visible Hcaptcha or Recaptcha V2 challenge by default.

If you want to render an invisible challenge instead, do this:

```
{% load allcaptcha_tags %}

<form method="post" action=".">
    {% csrf_token %}
    {{ form }}
    {% render_challenge "invisible" "Submit" %}
</form>
```

This will render a button that will trigger the invisible challenge on click.

The text on this button will read *Submit*.

## 2.1 Manual validation

Instead of using the `CaptchaFormMixin`, you can manually validate any challenge response by calling the `valid_response` function:

```
from allcaptcha.utils import valid_response

success = valid_response("my-challenge-response")
```

This function will return either `True` or `False` depending on whether the response was valid or not.

## 2.2 Manual rendering

The steps above will allow to quickly integrate captcha into any `Form`.

However, you might want to manually render your challenges and call your own Javascript functions upon challenge completion.

In that case, take a look at the [Template Tags](#) reference to see all the available templates that will allow you to render your own HTML elements to trigger challenges.

## SETTINGS

django-allcaptcha comes with several settings.

Some come with sane defaults while others need to be set manually.

### PROVIDER

**Type:** str

**Default:** hcaptcha

The provider to activate.

Can be one of the following:

- hcaptcha
- recaptcha

### CAPTCHA\_CHALLENGE\_THEME

**Type:** str

**Default:** light

Specify either *dark* or *light* theme when rendering the challenge.

### CAPTCHA\_CHALLENGE\_SIZE

**Type:** str

**Default:** normal

Render either a *normal* or *compact* sized challenge widget.

## 3.1 HCaptcha specific settings

### HCAPTCHA\_URL

**Type:** str

**Default:** <https://hcaptcha.com/siteverify>

The URL where HCaptcha challenge tokens will be sent for verification.

### HCAPTCHA\_SECRET\_KEY

**Type:** str

**Default:** None

Your secret key.

#### HCAPTCHA\_SITE\_KEY

**Type:** str

**Default:** None

Your site key.

#### HCAPTCHA\_JS

**Type:** str

**Default:** <https://js.hcaptcha.com/1/api.js>

The Javascript file containing HCaptcha APIs.

#### HCAPTCHA\_JS\_CALLBACK

**Type:** str

**Default:** onHcaptchaSubmit

The callback function to execute after the user completes the invisible challenge.

## 3.2 Recaptcha specific settings

#### \*RECAPTCHA\_URL

**Type:** str

**Default:** <https://www.google.com/recaptcha/api/siteverify>

The URL where ReCaptcha challenge tokens will be sent for verification.

#### RECAPTCHA\_V2\_SECRET\_KEY

**Type:** str

**Default:** None

Your V2 secret key.

#### RECAPTCHA\_V2\_SITE\_KEY

**Type:** str

**Default:** None

Your V2 site key.

#### RECAPTCHA\_V3\_SECRET\_KEY

**Type:** str

**Default:** None

Your V3 secret key.

#### RECAPTCHA\_V3\_SITE\_KEY

**Type:** str

**Default:** None

Your V3 site key.

#### RECAPTCHA\_JS

**Type:** str **Default:** <https://www.google.com/recaptcha/api.js>

The Javascript file containing Recaptcha APIs.

#### **RECAPTCHA\_JS\_CALLBACK**

**Type:** str

**Default:** onRecaptchaSubmit

The callback function to execute after the user completes the invisible or V3 challenge.

#### **RECAPTCHA\_VERSION**

**Type:** int

**Default:** 2

The version of Recaptcha to use.

#### **RECAPTCHA\_MIN\_SCORE**

**Type:** float

**Default:** 0.6

The minimum score for a Recaptcha V3 challenge to be considered successful.



## TEMPLATE TAGS

We provide a few template tags to make it easier to render captcha challenges as well as manually render your own challenge.

### **get\_sitekey()**

Returns the site key for the currently active provider.

### **get\_challenge\_class()**

Returns the css class name for the currently active provider.

This is used to automatically bind challenges to HTML elements.

### **get\_callback\_name()**

Return the Javascript callback function name for the currently active provider.

### **render\_challenge(challenge\_type="visible", text="submit", js\_callback=[RECAPTCHA\_JS\_CALLBACK|HCAPTCHA\_JS\_CALLBACK], theme="light", size="normal")**

Renders the challenge as follows:

- Visible challenges (example, Checkbox) as renders as divs.
- Invisible challenges are rendered as buttons.

The `text` arguments specifies the text to use for buttons.

Invisible challenges need a Javascript callback function. By default, this is set to either `RECAPTCHA_JS_CALLBACK` or `HCAPTCHA_JS_CALLBACK`. The default callback provided will submit the form.

You can override the kind of HTML generated by creating a template called `challenge.html` in the `allcaptcha` directory inside your global templates directory.





## INDICES AND TABLES

- `genindex`
- `search`