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# **django-dynamic-forms**

***Release 0.5.0***

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<b>1</b>	<b>Installation</b>	<b>3</b>
<b>2</b>	<b>Usage</b>	<b>5</b>
<b>3</b>	<b>Problems</b>	<b>7</b>
<b>4</b>	<b>Changes</b>	<b>9</b>
<b>5</b>	<b>References</b>	<b>11</b>
<b>6</b>	<b>Indices and tables</b>	<b>23</b>
	<b>Python Module Index</b>	<b>25</b>



Contents:

**Warning:** `django-dynamic-forms` 0.5.x will only support Django  $\geq 1.7$ ! If you need support for Django  $< 1.7$  use `django-dynamic-forms` 0.4.x!



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## Installation

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**Warning:** `django-dynamic-forms` 0.5.x will only support Django  $\geq$  1.7! If you need support for Django  $<$  1.7 use `django-dynamic-forms` 0.4.x!

Install **django-dynamic-forms** into your virtual environment or you site-packages using pip:

```
$ pip install django-dynamic-forms
```

If you already use the wheel package format you can use the wheel build:

```
$ pip install --use-wheel django-dynamic-forms
```

To make **django-dynamic-forms** available in your Django project, you first have to add it to the `INSTALLED_APPS` in your `settings.py`. If you are unsure where to put it, just append it:

```
INSTALLED_APPS = (
    ...
    'dynamic_forms.apps.DynamicFormsConfig',
    ...
)
```

To make Django aware of the dynamic forms while processing the requests / responses you need to add the `FormModelMiddleware` to the list of `MIDDLEWARE_CLASSES`. The best place is probably at the end of the list. If your forms are not shown please refer to the [known problems](#) section of the documentation:

```
MIDDLEWARE_CLASSES = (
    ...
    'dynamic_forms.middlewares.FormModelMiddleware'
)
```

Last but not least you need to add the `'dynamic_forms.urls'` urlpatterns to your project's URL patterns:

```
urlpatterns = patterns('',
    ...
    url(r'^dynamic_forms/',
        include('dynamic_forms.urls', namespace='dynamic_forms')),
    ...
)
```

---

**Important:** Make sure that you get the namespace straight: `dynamic_forms`!

---

Finally you have to update your database. Run:

```
$ python manage.py migrate dynamic_forms
```



## 2.1 Using Custom Templates

**django-dynamic-forms** comes with a basic template that just displays the form or a success page. You can customize these templates to your needs.

### 2.1.1 The Form Template

The following code shows the default template rendering a dynamic form.

```
{% load i18n %}
<h2>{{ name }}</h2>
<form method="post" action="{{ submit_url }}">
    {% csrf_token %}
    {{ form.as_p }}
    <button type="submit">{% trans "Submit" %}</button>
</form>
```

The `DynamicFormView` exposes three variables to the template context related to the form:

**form** An instance of the form that will be shown on this page. As the form is a normal Django form, all rules from the [Django documentation](#) apply.

**model** An instance of the form model providing the form and assigned to this URL.

**name** The form's name as defined in `dynamic_forms.models.FormModel.name`.

**success\_url** The URL the form will be submitted to as defined in `dynamic_forms.models.FormModel.submit_url`. This is *not* the `success_url`!

### 2.1.2 The Success Template

The following code shows the success template after a successful form submit.

```
{% load i18n %}
<h2>{% trans "Success" %}</h2>
<p>{% trans "Form submitted successfully" %}</p>
{% if data %}<p>{% blocktrans with link=data.show_url_link %}For your convenience you can see your data</p>
```

The `DynamicTemplateView` exposes two variables to the template context related to the form:

**model** An instance of the form model assigned to this URL.

**data** If an instance of `FormModelData` if a existing `display_key` is given and the form model (`model`) has set `allow_display` to `True`.

## 2.2 Third Party Apps

### 2.2.1 django-simple-captcha

`django-simple-captcha` provides easy CAPTCHA support for Django forms. This contrib package integrates `django-simple-captcha` into **django-dynamic-forms** allowing users to add a CAPTCHA field to their dynamic forms.

To use it make sure you installed **django-simple-captcha**:

```
$ pip install django-simple-captcha
```

Next put `'captcha'` and `'dynamic_forms.contrib.simple_captcha'` in the `INSTALLED_APPS`:

```
INSTALLED_APPS = (
    ...
    'captcha',
    'dynamic_forms.contrib.simple_captcha',
    ...
)
```

---

**Problems**

---

### 3.1 My form is not shown

If you are sure you followed the [Installation](#) instructions, there are several reasons:

1. You might have misspelled the URL path. Please check again.
2. There is another view that maps to the URL you defined in your model. 1. If you have Django's flatpages framework installed, check please check  
that there is not page mapping to this URL.
3. An error occurs while constructing the form or rendering the template. Set `DEBUG = True` in your `settings.py` and have a look at the exception that is raised.



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## Changes

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### 4.1 v0.5 (under development)

**Warning:** `django-dynamic-forms` 0.5.x will only support Django  $\geq$  1.7!

- Form action take a required third argument `request`.
- Support for Django 1.9
- Removed `six` dependency
- Added missing contrib packages (thanks Seán Hayes) (#23)

### 4.2 v0.4.1 (SECURITY RELEASE)

- Fixed a CSRF vulnerability in the `POST` handling of forms. Thanks [Marten Kenbeek](#) for the report and patch. (#26)

### 4.3 v0.4

**Warning:** `django-dynamic-forms` 0.4.x will be the latest version branch that supports Django  $<$  1.7!

- Added support for Django 1.8 and experimental support for Django 1.9. (#19)
- Removed `django-appconf` dependency.
- Added per form email receivers (thanks to Nar Chhantyal). (#13)
- Increased form fields' label `max_length` to 255 (thanks to Nar Chhantyal). (#18)

### 4.4 v0.3.4

- Fixed a issue with missing migrations on Python 2. (#11)

## 4.5 v0.3.3

- Updated Portuguese translation (thanks Gladson Simplicio). (#8)

## 4.6 v0.3.2

- Introduced the settings variables `DYNAMIC_FORMS_FORM_TEMPLATES` and `DYNAMIC_FORMS_SUCCESS_TEMPLATES` to make defining the templates for the form and success display easier and more usable for non-developers. (#1)
- Allowed delayed registration of [actions](#) and [dynamic form fields](#).
- Allowed dynamic fields to exclude their value from the `mapped_data` by overriding `do_display_data()`.
- Added support for [django-simple-captcha](#). (#2)
- Added Portuguese translation (thanks Gladson Simplicio). (#4)
- Replaced `formfields.dynamic_form_field_registry` with `formfields.formfield_registry` and deprecated the former.
- Fixed sorting of actions and field types by their label. (#5)
- Allowed users to get a link to see the data they submitted before at a later time. (#6)

## 4.7 v0.2

- Fixed some packaging issues. (thanks Jannis Leidel)
- Added Django 1.7's `db.migrations`.
- Moved to `tox` for development testing.

## 4.8 v0.1

- Initial release

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## References

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### 5.1 Actions

Actions define what happens once a user submits a *FormModelForm*. **django-dynamic-forms** provides two basic actions *dynamic\_form\_send\_email()* and *dynamic\_form\_store\_database()* that, as their names indicate, either send the submitted data via e-mail to the recipients defined in the *DYNAMIC\_FORMS\_EMAIL\_RECIPIENTS* settings variable or stores it into the database (precisely the *FormModelData* model).

Any action that should be available for usage must be registered in the *ActionRegistry*. This can be done with the following code:

```
>>> def my_function(form_model, form, request):
...     # do something
...     pass
...
>>> from dynamic_forms.actions import action_registry
>>> action_registry.register(my_function, 'My Label')
```

This allows one to register an action during runtime. But many actions are already available during compile or start-up time and can be registered then by using a handy decorator *formmodel\_action()*. Given the above situation, this would look like:

```
>>> from dynamic_forms.actions import formmodel_action
>>> @formmodel_action('My Label')
... def my_function(form_model, form, request):
...     # do something
...     pass
...
```

New in version 0.3: When a dynamic form is submitted through *DynamicFormView* the return values of actions are kept for further usage. This allows the view to e.g. add a link to a permanent URL referring to some stored values.

#### 5.1.1 Providing and accessing actions

##### **ActionRegistry**

**class** *dynamic\_forms.actions.ActionRegistry*

The *ActionRegistry* keeps track of all available actions available to the software. It is available to the outside through the *action\_registry* singleton

**Warning:** You should not import the `ActionRegistry` directly! Always use the singleton instance `action_registry`!

```
>>> from dynamic_forms.actions import action_registry
```

**get** (*key*)

**Parameters** **key** (*str*) – The key to get an action

**Returns** Either the action previously registered or `None` if no action with the given key has been found.

**get\_as\_choices** ()

Changed in version 0.3: Returns a generator instead of a list

Returns a generator that yields all registered actions as 2-tuples in the form (*key*, *label*).

**register** (*func*, *label*)

Registers the function *func* with the label *label*. The function will internally be referred by its full qualified name:

```
'%s.%s' % (func.__module__, func.__name__)
```

**Parameters**

- **func** (*callable*) – The function to register.
- **label** (*str*) – A string / unicode giving the action a human readable name

**unregister** (*key*)

Looks up the given key in the internal dictionary and deletes the action if it exists.

**Parameters** **key** (*str*) – The key an action is assigned to

`dynamic_forms.actions.action_registry`

The singleton instance of the `ActionRegistry`.

## Action registry utilities

`@dynamic_forms.actions.formmodel_action` (*label*)

Registering various actions by hand can be time consuming. This function decorator eases this heavily: given a string as the first argument, this decorator registers the decorated function withing the `action_registry` with its fully dotted Python path.

Usage:

```
@formmodel_action('My super awesome action')
def my_action(form_model, form, request):
    # do something with the data ...
```

This is equivalent to:

```
def my_action(form_model, form, request):
    # do something with the data ...

action_registry.register(my_action, 'My super awesome action')
```



## 5.1.2 Default Actions

`dynamic_forms.actions.dynamic_form_send_email(form_model, form, request)`

Sends the data submitted through the form `form` via e-mail to all recipients listed in `DYNAMIC_FORMS_EMAIL_RECIPIENTS`.

### Parameters

- **form\_model** (`dynamic_forms.models.ModelForm`) – The instance of the model defining the form.
- **form** (`dynamic_forms.forms.ModelFormForm`) – The instance of the submitted form. One can get the data either using `form.cleaned_data` or, if the labels defined in the `form_model` for each field are needed, in the appropriate order by calling `get_mapped_data()`.
- **request** (`django.http.Request`) – The current request

New in version 0.5: The `request` parameter was added.

`dynamic_forms.actions.dynamic_form_store_database(form_model, form, request)`

This action takes the mapped data from the `form` and serializes it as JSON. This value is then stored in the `FormModelData`.

### See also:

`dynamic_form_store_database()` for a detailed explanation of the arguments.

New in version 0.3: To allow linking to a stored data set, the action now returns the inserted object.

New in version 0.5: The `request` parameter was added.

## 5.2 Admin

## 5.3 Fields

`class dynamic_forms.fields.TextMultiSelectField([separate_values_by='\n', **options])`

Provides multiple choice field storage for strings without limiting the total length of the string or giving any restrictions of which characters are not allowed because they are used to split the input value into its different choices.

**Parameters** `separate_values_by` (*str*) – The string used to split the input value into its choices. Defaults to `'\n'`.

### See also:

The respective form field as part of **django-dynamic-forms** `dynamic_forms.forms.MultiSelectFormField`.  
The common field options and the specifics for the `django.db.models.TextField`.

---

**Note:** The implementation is based on <http://djangosnippets.org/snippets/2753/> but has been modified to the needs of this project. Thus, there is no conversion of the selected items to `int` or similar.

---

## 5.4 Form fields

`dynamic_forms.formfields.format_display_label(cls_name)`

`dynamic_forms.formfields.load_class_from_string(cls_string)`

### 5.4.1 DynamicFormFieldRegistry

`class dynamic_forms.formfields.DynamicFormFieldRegistry(object)`

`get(key)`

`get_as_choices()`

Changed in version 0.3: Returns a generator instead of a list

Returns a generator that yields all registered dynamic form fields as 2-tuples in the form (key, display\_label).

`register(cls)`

`unregister(key)`

`dynamic_forms.formfields.formfield_registry`

New in version 0.3: Use this instead of `dynamic_form_field_registry`

`dynamic_forms.formfields.dynamic_form_field_registry`

Deprecated since version 0.3: Deprecated in favor of `formfield_registry`

`@dynamic_forms.formfields.dynamic_form_field(cls)`

A class decorator to register the class as a dynamic form field in the `DynamicFormFieldRegistry`.

### 5.4.2 Base Form Field Classes

#### DFFMetaclass

`class dynamic_forms.formfields.DFFMetaclass`

Metaclass that inspects the Meta class of a class inheriting from `BaseDynamicFormField` and merges the different attributes that are later being passed to the respective `django.forms.Field`.

You are free to add an attribute `_exclude` of type list or tuple to the Meta class of a field to exclude any attributes inherited from a super `DynamicFormField`. Look at the implementation of the `BooleanField` for an example.

#### BaseDynamicFormField

`class dynamic_forms.formfields.BaseDynamicFormField`

`cls`

None

`display_label`

None

`widget`

None

`options`

`class Meta`

```

help_text
    [six.string_types, ' ', (forms.CharField, forms.Textarea)]

required
    [bool, True, forms.NullBooleanField]

dynamic_forms.formfields.__init__(name, label, widget_attrs={}, **kwargs)

dynamic_forms.formfields.__str__()
dynamic_forms.formfields.__unicode__()

dynamic_forms.formfields.construct([**kwargs])

dynamic_forms.formfields.contribute_to_form(form)

dynamic_forms.formfields.get_display_label()
    Returns a class's display_label is defined or calls format_display_label() with the class's
    name.

    This function is only available to the class itself. It is not callable from an instance.

dynamic_forms.formfields.get_widget_attrs()

dynamic_forms.formfields.set_options([**kwargs])

dynamic_forms.formfields.options_valid()

classmethod dynamic_forms.formfields.do_display_data()
    Default: True

```

### 5.4.3 Default Fields

```
class dynamic_forms.formfields.BooleanField
```

```

    cls
        'django.forms.BooleanField'

    display_label
        'Boolean'

    class Meta

        _exclude
            ('required',)

```

```
class dynamic_forms.formfields.ChoiceField
```

```

    cls
        'django.forms.ChoiceField'

    display_label
        'Choices'

    class Meta

        choices
            [six.string_types, ' ', (forms.CharField, forms.Textarea)]

dynamic_forms.formfields.construct([**kwargs])

```

```
dynamic_forms.formfields.options_valid()

class dynamic_forms.formfields.DateField

    cls
        'django.forms.DateField

    display_label
        'Date

    class Meta

        localize
            [bool, True, forms.NullBooleanField]

class dynamic_forms.formfields.DateTimeField

    cls
        'django.forms.DateTimeField

    display_label
        'Date and Time'

    class Meta

        localize
            [bool, True, forms.NullBooleanField]

class dynamic_forms.formfields.EmailField

    cls
        'django.forms.EmailField

    display_label
        'Email

class dynamic_forms.formfields.IntegerField

    cls
        'django.forms.IntegerField

    display_label
        'Integer

    class Meta

        localize
            [bool, True, forms.NullBooleanField]

        max_value
            [int, None, forms.IntegerField]

        min_value
            [int, None, forms.IntegerField]

class dynamic_forms.formfields.MultiLineTextField
```

```

    cls
        'django.forms.CharField

    display_label
        'Multi Line Text

    widget
        'django.forms.widgets.Textarea
class dynamic_forms.formfields.SingleLineTextField

    cls
        'django.forms.CharField

    display_label
        'Single Line Text

    class Meta

        max_length
            [int, None, forms.IntegerField]

        min_length
            [int, None, forms.IntegerField]
class dynamic_forms.formfields.TimeField

    cls
        'django.forms.TimeField

    display_label
        'Time

    class Meta

        localize
            [bool, True, forms.NullBooleanField]

```

## 5.5 Forms

### 5.5.1 Form Fields

**class** `dynamic_forms.forms.MultiSelectFormField` (`[separate_values_by='\n', **options]`)  
 Provides multiple choice field storage for string objects without limiting the total length of the string.

**Parameters** `separate_values_by` (*str*) – The string used to split the input value into its choices. Defaults to `'\n'`.

**See also:**

The respective database field as part of **django-dynamic-forms** `dynamic_forms.fields.TextMultiSelectField`.  
 The [core form field arguments](#) and the specifics for the `django.forms.MultipleChoiceField`.

---

**Note:** The implementation is based on <http://djangosnippets.org/snippets/2753/> but has been modified to the needs of this project.

---

## 5.5.2 Forms

```
class dynamic_forms.forms.FormModelForm(model[, *args, **kwargs])
```

```
get_mapped_data([exclude_missing=False])
```

Returns an dictionary sorted by the position of the respective field in its form.

**Parameters** `exclude_missing` (*boolean*) – If True, non-filled fields (those whose value evaluates to False) are not present in the returned dictionary. Default: False

## 5.6 Middlewares

```
class dynamic_forms.middlewares.FormModelMiddleware
```

This middleware intercepts all HTTP 404 responses and checks if there is a form mapped to this URL. This way an explicit URL mapping from the projects ROOT\_URLCONF cannot accidentally be overridden by wrong setting for `submit_url` or `success_url` on `dynamic_forms.models.FormModel`.

This technique is comparable to the one used by Django's FlatpageFallbackMiddleware.

```
process_response(request, response)
```

The algorithm that decides if and which form to display works like this:

- 1.If the `status_code` for response is **not** 404 (NOT FOUND) this the `FormModelMiddleware` will return the response as-is and will not modify it. Thus, server error (5xx) will also not be affected by the middleware.
- 2.If there is a `FormModel` whose `submit_url` matches the request's `path_info`, this model is used to construct and render the view.
- 3.If there is a `FormModel` whose `success_url` matches the request's `path_info`, this model is used to display the success page.

---

**Note:** Since the `success_url` of a `FormModel` is not necessarily be unique, the first model that matches the request path will be used.

---

- 4.If any errors occur while processing a form the original request is returned (if `DEBUG = True` the respective exception is raised).

## 5.7 Models

### 5.7.1 FormModel

```
class dynamic_forms.models.FormModel
```

```

name
    django.db.models.CharField
        •max_length = 50
        •unique = True
submit_url
    django.db.models.CharField
        •max_length = 100
        •unique = True
success_url
    django.db.models.CharField
        •max_length = 100
        •blank = True
        •default = ''
actions
    dynamic_forms.fields.TextMultiSelectField
        •default = ''
        •choices = dynamic_forms.actions.ActionRegistry.get_as_choices()
form_template
    django.db.models.CharField
        •max_length = 100
        •choices = dynamic_forms.conf.DYNAMIC_FORMS_FORM_TEMPLATES
success_template
    django.db.models.CharField
        •max_length = 100
        •choices = dynamic_forms.conf.DYNAMIC_FORMS_SUCCESS_TEMPLATES
allow_display
    django.db.models.BooleanField
        •default = False
recipient_email
    django.db.models.EmailField
fields
    Related name by FormFieldModel
data
    Related name by FormModelData
class Meta

    ordering
        ['name']

dynamic_forms.models.__str__()
dynamic_forms.models.__unicode__()

```

```
dynamic_forms.models.get_fields_as_dict()
dynamic_forms.models.save(*args, **kwargs)
```

## 5.7.2 FormFieldModel

**class** `dynamic_forms.models.FormFieldModel`

```
parent_form
    django.db.models.ForeignKey
        •Foreign key to FormModel
        •on_delete = django.db.models.CASCADE

field_type
    django.db.models.CharField
        •max_length = 255
        •choices = dynamic_forms.formfields.DynamicFormFieldRegistry.get_as_choices()

label
    django.db.models.CharField
        •max_length = 255

name
    django.db.models.CharField
        •max_length = 50
        •blank = True

_options
    django.db.models.TextField
        •blank = True
        •null = True

position
    django.db.models.SmallIntegerField
        •blank = True
        •default = 0

options
    Property wrapping JSON serialization and deserialization around the _options.

class Meta

    ordering
        ['parent_form', 'position']

    unique_together
        ("parent_form", "name",)

dynamic_forms.models.__str__()
dynamic_forms.models.__unicode__()
dynamic_forms.models.generate_form_field(form)
```



```
dynamic_forms.models.get_form_field_kwargs()
dynamic_forms.models.save(*args, **kwargs)
```

### 5.7.3 FormModelData

**class** `dynamic_forms.models.FormModelData`

```
form
    django.db.models.ForeignKey
        •Foreign key to FormModel
        •on_delete = django.db.models.SET_NULL
        •null = True

value
    django.db.models.TextField
        •blank = True
        •default = ''

submitted
    django.db.models.DateTimeField
        •auto_now_add = True

__str__()
__unicode__()
pretty_value()
```

## 5.8 Settings

### 5.8.1 DYNAMIC\_FORMS\_EMAIL\_RECIPIENTS

`dynamic_forms.conf.DYNAMIC_FORMS_EMAIL_RECIPIENTS`

A list of email addresses. Used to define the recipients form data will be send to if the action `dynamic_form_send_email()` is activated.

Defaults to all email addresses defined in the ADMINS setting.

### 5.8.2 DYNAMIC\_FORMS\_FORM\_TEMPLATES

`dynamic_forms.conf.DYNAMIC_FORMS_FORM_TEMPLATES`

New in version 0.3.

A tuple of 2-tuples passed to the *FormModel*'s `form_template` attribute. This setting provides easier and less error-prone definition of the form template.

Defaults to:

```
(
    ('dynamic_forms/form.html', _('Default form template')),
)
```

### 5.8.3 DYNAMIC\_FORMS\_SUCCESS\_TEMPLATES

`dynamic_forms.conf.DYNAMIC_FORMS_SUCCESS_TEMPLATES`

New in version 0.3.

A tuple of 2-tuples passed to the *FormModel*'s *success\_template* attribute. This setting provides easier and less error-prone definition of the form template.

```
(
    ('dynamic_forms/form_success.html', _('Default success template')),
)
```

## 5.9 Views

## 5.10 Contrib packages

### 5.10.1 django-simple-captcha

`class dynamic_forms.contrib.simple_captcha.models.CaptchaField`

```
cls
    'captcha.fields.CaptchaField'

display_label
    'CAPTCHA'

class Meta

    _exclude
        ('required',)

classmethod dynamic_forms.contrib.simple_captcha.models.do_display_data()
    Default: True
```

---

## Indices and tables

---

- `genindex`
- `modindex`
- `search`



## a

`dynamic_forms.actions`, [11](#)  
`dynamic_forms.admin`, [13](#)

## c

`dynamic_forms.conf`, [21](#)  
`dynamic_forms.contrib.simple_captcha`, [6](#)  
`dynamic_forms.contrib.simple_captcha.models`,  
[22](#)

## f

`dynamic_forms.fields`, [13](#)  
`dynamic_forms.formfields`, [13](#)  
`dynamic_forms.forms`, [17](#)

## m

`dynamic_forms.middlewares`, [18](#)  
`dynamic_forms.models`, [18](#)

## v

`dynamic_forms.views`, [22](#)



## Symbols

[\\_\\_init\\_\\_\(\)](#) (in module `dynamic_forms.formfields`), 15  
[\\_\\_str\\_\\_\(\)](#) (dynamic\_forms.models.ModelFormData method), 21  
[\\_\\_str\\_\\_\(\)](#) (in module `dynamic_forms.formfields`), 15  
[\\_\\_str\\_\\_\(\)](#) (in module `dynamic_forms.models`), 19, 20  
[\\_\\_unicode\\_\\_\(\)](#) (dynamic\_forms.models.ModelFormData method), 21  
[\\_\\_unicode\\_\\_\(\)](#) (in module `dynamic_forms.formfields`), 15  
[\\_\\_unicode\\_\\_\(\)](#) (in module `dynamic_forms.models`), 19, 20  
[\\_exclude](#) (dynamic\_forms.contrib.simple\_captcha.models.CaptchaField.Meta attribute), 22  
[\\_exclude](#) (dynamic\_forms.formfields.BooleanField.Meta attribute), 15  
[\\_options](#) (dynamic\_forms.models.FormFieldModel attribute), 20

## A

[action\\_registry](#) (in module `dynamic_forms.actions`), 12  
[ActionRegistry](#) (class in `dynamic_forms.actions`), 11  
[actions](#) (dynamic\_forms.models.ModelForm attribute), 19  
[allow\\_display](#) (dynamic\_forms.models.ModelForm attribute), 19

## B

[BaseDynamicFormField](#) (class in `dynamic_forms.formfields`), 14  
[BaseDynamicFormField.Meta](#) (class in `dynamic_forms.formfields`), 14  
[BooleanField](#) (class in `dynamic_forms.formfields`), 15  
[BooleanField.Meta](#) (class in `dynamic_forms.formfields`), 15

## C

[CaptchaField](#) (class in `dynamic_forms.contrib.simple_captcha.models`), 22

[CaptchaField.Meta](#) (class in `dynamic_forms.contrib.simple_captcha.models`), 22  
[ChoiceField](#) (class in `dynamic_forms.formfields`), 15  
[ChoiceField.Meta](#) (class in `dynamic_forms.formfields`), 15  
[choices](#) (dynamic\_forms.formfields.ChoiceField.Meta attribute), 15  
[cls](#) (dynamic\_forms.contrib.simple\_captcha.models.CaptchaField attribute), 22  
[cls](#) (dynamic\_forms.formfields.BaseDynamicFormField attribute), 14  
[cls](#) (dynamic\_forms.formfields.BooleanField attribute), 15  
[cls](#) (dynamic\_forms.formfields.ChoiceField attribute), 15  
[cls](#) (dynamic\_forms.formfields.DateField attribute), 16  
[cls](#) (dynamic\_forms.formfields.DateTimeField attribute), 16  
[cls](#) (dynamic\_forms.formfields.EmailField attribute), 16  
[cls](#) (dynamic\_forms.formfields.IntegerField attribute), 16  
[cls](#) (dynamic\_forms.formfields.MultiLineTextField attribute), 16  
[cls](#) (dynamic\_forms.formfields.SingleLineTextField attribute), 17  
[cls](#) (dynamic\_forms.formfields.TimeField attribute), 17  
[construct\(\)](#) (in module `dynamic_forms.formfields`), 15  
[contribute\\_to\\_form\(\)](#) (in module `dynamic_forms.formfields`), 15

## D

[data](#) (dynamic\_forms.models.ModelForm attribute), 19  
[DateField](#) (class in `dynamic_forms.formfields`), 16  
[DateField.Meta](#) (class in `dynamic_forms.formfields`), 16  
[DateTimeField](#) (class in `dynamic_forms.formfields`), 16  
[DateTimeField.Meta](#) (class in `dynamic_forms.formfields`), 16  
[DFFMetaClass](#) (class in `dynamic_forms.formfields`), 14  
[display\\_label](#) (dynamic\_forms.contrib.simple\_captcha.models.CaptchaField attribute), 22  
[display\\_label](#) (dynamic\_forms.formfields.BaseDynamicFormField attribute), 14

display\_label (dynamic\_forms.formfields.BooleanField attribute), 15

display\_label (dynamic\_forms.formfields.ChoiceField attribute), 15

display\_label (dynamic\_forms.formfields.DateField attribute), 16

display\_label (dynamic\_forms.formfields.DateTimeField attribute), 16

display\_label (dynamic\_forms.formfields.EmailField attribute), 16

display\_label (dynamic\_forms.formfields.IntegerField attribute), 16

display\_label (dynamic\_forms.formfields.MultiLineTextField attribute), 17

display\_label (dynamic\_forms.formfields.SingleLineTextField attribute), 17

display\_label (dynamic\_forms.formfields.TimeField attribute), 17

do\_display\_data() (in module dynamic\_forms.contrib.simple\_captcha.models), 22

do\_display\_data() (in module dynamic\_forms.formfields), 15

dynamic\_form\_field() (in module dynamic\_forms.formfields), 14

dynamic\_form\_field\_registry (in module dynamic\_forms.formfields), 14

dynamic\_form\_send\_email() (in module dynamic\_forms.actions), 13

dynamic\_form\_store\_database() (in module dynamic\_forms.actions), 13

dynamic\_forms.actions (module), 11

dynamic\_forms.admin (module), 13

dynamic\_forms.conf (module), 21

dynamic\_forms.contrib.simple\_captcha (module), 6

dynamic\_forms.contrib.simple\_captcha.models (module), 22

dynamic\_forms.fields (module), 13

dynamic\_forms.formfields (module), 13

dynamic\_forms.forms (module), 17

dynamic\_forms.middlewares (module), 18

dynamic\_forms.models (module), 18

dynamic\_forms.views (module), 22

DYNAMIC\_FORMS\_EMAIL\_RECIPIENTS (in module dynamic\_forms.conf), 21

DYNAMIC\_FORMS\_FORM\_TEMPLATES (in module dynamic\_forms.conf), 21

DYNAMIC\_FORMS\_SUCCESS\_TEMPLATES (in module dynamic\_forms.conf), 22

DynamicFormFieldRegistry (class in dynamic\_forms.formfields), 14

## E

EmailField (class in dynamic\_forms.formfields), 16

## F

field\_type (dynamic\_forms.models.FormFieldModel attribute), 20

fields (dynamic\_forms.models.FormModel attribute), 19

form (dynamic\_forms.models.FormModelData attribute), 21

form\_template (dynamic\_forms.models.FormModel attribute), 19

format\_display\_label() (in module dynamic\_forms.formfields), 13

formfield\_registry (in module dynamic\_forms.formfields), 14

FormFieldModel (class in dynamic\_forms.models), 20

FormFieldModel.Meta (class in dynamic\_forms.models), 20

FormModel (class in dynamic\_forms.models), 18

FormModel.Meta (class in dynamic\_forms.models), 19

formmodel\_action() (in module dynamic\_forms.actions), 12

FormModelData (class in dynamic\_forms.models), 21

FormModelForm (class in dynamic\_forms.forms), 18

FormModelMiddleware (class in dynamic\_forms.middlewares), 18

## G

generate\_form\_field() (in module dynamic\_forms.models), 20

get() (dynamic\_forms.actions.ActionRegistry method), 12

get() (dynamic\_forms.formfields.DynamicFormFieldRegistry method), 14

get\_as\_choices() (dynamic\_forms.actions.ActionRegistry method), 12

get\_as\_choices() (dynamic\_forms.formfields.DynamicFormFieldRegistry method), 14

get\_display\_label() (in module dynamic\_forms.formfields), 15

get\_fields\_as\_dict() (in module dynamic\_forms.models), 19

get\_form\_field\_kwargs() (in module dynamic\_forms.models), 20

get\_mapped\_data() (dynamic\_forms.forms.FormModelForm method), 18

get\_widget\_attrs() (in module dynamic\_forms.formfields), 15

## H

help\_text (dynamic\_forms.formfields.BaseDynamicFormField.Meta attribute), 14

## I

IntegerField (class in dynamic\_forms.formfields), 16



- IntegerField.Meta (class in `dynamic_forms.formfields`), 16
- ## L
- label (dynamic\_forms.models.FormFieldModel attribute), 20
- load\_class\_from\_string() (in module `dynamic_forms.formfields`), 14
- localize (dynamic\_forms.formfields.DateField.Meta attribute), 16
- localize (dynamic\_forms.formfields.DateTimeField.Meta attribute), 16
- localize (dynamic\_forms.formfields.IntegerField.Meta attribute), 16
- localize (dynamic\_forms.formfields.TimeField.Meta attribute), 17
- ## M
- max\_length (dynamic\_forms.formfields.SingleLineTextField.Meta attribute), 17
- max\_value (dynamic\_forms.formfields.IntegerField.Meta attribute), 16
- min\_length (dynamic\_forms.formfields.SingleLineTextField.Meta attribute), 17
- min\_value (dynamic\_forms.formfields.IntegerField.Meta attribute), 16
- MultiLineTextField (class in `dynamic_forms.formfields`), 16
- MultiSelectFormField (class in `dynamic_forms.forms`), 17
- ## N
- name (dynamic\_forms.models.FormFieldModel attribute), 20
- name (dynamic\_forms.models.FormModel attribute), 18
- ## O
- options (dynamic\_forms.formfields.BaseDynamicFormField attribute), 14
- options (dynamic\_forms.models.FormFieldModel attribute), 20
- options\_valid() (in module `dynamic_forms.formfields`), 15
- ordering (dynamic\_forms.models.FormFieldModel.Meta attribute), 20
- ordering (dynamic\_forms.models.FormModel.Meta attribute), 19
- ## P
- parent\_form (dynamic\_forms.models.FormFieldModel attribute), 20
- position (dynamic\_forms.models.FormFieldModel attribute), 20
- pretty\_value() (dynamic\_forms.models.FormModelData method), 21
- process\_response() (dynamic\_forms.middlewares.FormModelMiddleware method), 18
- ## R
- recipient\_email (dynamic\_forms.models.FormModel attribute), 19
- register() (dynamic\_forms.actions.ActionRegistry method), 12
- register() (dynamic\_forms.formfields.DynamicFormFieldRegistry method), 14
- required (dynamic\_forms.formfields.BaseDynamicFormField.Meta attribute), 15
- ## S
- save() (in module `dynamic_forms.models`), 20, 21
- set\_options() (in module `dynamic_forms.formfields`), 15
- SingleLineTextField (class in `dynamic_forms.formfields`), 17
- SingleLineTextField.Meta (class in `dynamic_forms.formfields`), 17
- submit\_url (dynamic\_forms.models.FormModel attribute), 19
- submitted (dynamic\_forms.models.FormModelData attribute), 21
- success\_template (dynamic\_forms.models.FormModel attribute), 19
- success\_url (dynamic\_forms.models.FormModel attribute), 19
- ## T
- TextMultiSelectField (class in `dynamic_forms.fields`), 13
- TimeField (class in `dynamic_forms.formfields`), 17
- TimeField.Meta (class in `dynamic_forms.formfields`), 17
- ## U
- unique\_together (dynamic\_forms.models.FormFieldModel.Meta attribute), 20
- unregister() (dynamic\_forms.actions.ActionRegistry method), 12
- unregister() (dynamic\_forms.formfields.DynamicFormFieldRegistry method), 14
- ## V
- value (dynamic\_forms.models.FormModelData attribute), 21
- ## W
- widget (dynamic\_forms.formfields.BaseDynamicFormField attribute), 14
- widget (dynamic\_forms.formfields.MultiLineTextField attribute), 17