django-relatives Documentation

Release 1

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django-relatives provides various utilites that make it easy to link related objects in the Django admin site.

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CHAPTER 1

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1.1 Usage

1.1.1 Installation

Install from PyPI:

```
$ pip install django-relatives
```

Since relatives uses cache, you can set settings to change the defaults:

```
RELATIVES_CACHE_KEY = 'relatives_cache'
RELATIVES_CACHE_TIME = int(60*60*24)
```

1.1.2 Edit links in inlines

To link to an inline object, include the $object_link$ utility function in your admin inline's fields list and readonly_fields list.

Example

Code

```
from django.contrib import admin
from relatives.utils import object_link
from models import Company, Employee

class EmployeeInline(admin.TabularInline):
```

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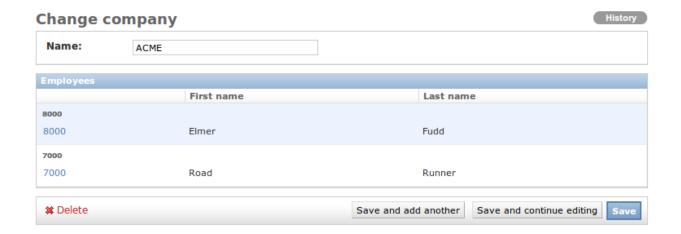
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```
model = Employee
  fields = [object_link, 'first_name', 'last_name']
  readonly_fields = fields
  extra = 0
  max_num = 0
  can_delete = False

class CompanyAdmin(admin.ModelAdmin):
  inlines = [EmployeeInline]

admin.site.register(Company, CompanyAdmin)
```

Screenshot



1.1.3 Customizing inline edit links

To customize the link text for your inline links, use the <code>object_edit_link</code> utility function instead, specifying the edit text and blank text (both are optional).

Example

Code

```
from django.contrib import admin
from relatives.utils import object_edit_link
from models import Company, Employee

class EmployeeInline(admin.TabularInline):
```

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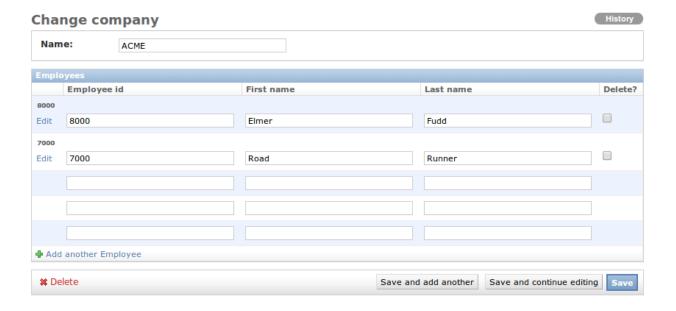
```
model = Employee
  edit_link = object_edit_link("Edit")
  fields = [edit_link, 'employee_id', 'first_name', 'last_name']
  readonly_fields = [edit_link]

class CompanyAdmin(admin.ModelAdmin):
  inlines = [EmployeeInline]

admin.site.register(Company, CompanyAdmin)

admin.site.register(Employee)
```

Screenshot



1.1.4 Linking to foreign keys

The contents_or_fk_link template filter can be used to link to foreign keys for readonly admin form fields.

Django Relatives also provides a replacement for the admin/includes/fieldset.html template which can be used to automatically link to all readonly foreign key fields in change forms.

To use the custom fieldset template you must add relatives to INSTALLED_APPS in your settings file:

```
INSTALLED_APPS = (
    ...
    'relatives',
)
```

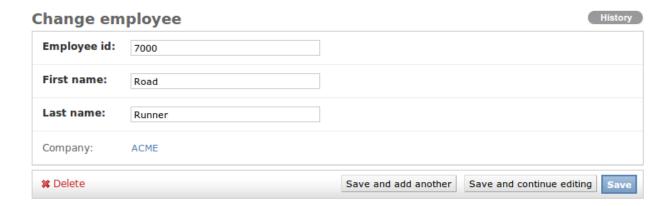
Next create a admin/includes/fieldset.html template file:

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```
{% extends "relatives/includes/fieldset.html" %}
```

Also make sure this template file is in a custom template directory or an app listed before your admin app in INSTALLED_APPS.

Example Screenshot



1.1.5 Linking to reverse relations

The related_objects template tag makes it easy to link to change lists filtered for reverse relations (objects that have a foreign key to a given object).

Django Relatives also provides a custom change_form.html template that may be used to add a "Relations" sidebar to change forms. This sidebar provides links to change list queries for all objects that contain a foreign key to the current object.

To use the custom fieldset template you must add relatives to INSTALLED_APPS in your settings file:

```
INSTALLED_APPS = (
    ...
    'relatives',
)
```

Now you can customize the change form template for your desired models/apps. The easiest way to link to reverse relations is to override the change_form_template in your ModelAdmin subclass.

Example

Code

```
from django.contrib import admin
from models import Company, Employee

class CompanyAdmin(admin.ModelAdmin):
    change_form_template = 'relatives/change_form.html'
```

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```
admin.site.register(Company, CompanyAdmin)

admin.site.register(Employee)
```

Screenshot



Linking to reverse relations with custom template

If you don't have access to change the ModelAdmin for your model or you are already customizing your model's admin change form, you will need to use a custom admin template instead.

Create a admin/YOURAPP/YOURMODEL/change_form.html template file that extends from relatives/change_form.html:

```
{% extends "relatives/change_form.html" %}
```

Also make sure this template file is in a custom template directory or an app listed before your admin app in INSTALLED_APPS.

1.2 API Reference

1.2.1 Utility Functions

```
class relatives.utils.GenericObjects( object)
```

Search GenericForeignKey over all models and returns related objects if has relations with given object.

```
class relatives.utils.RelatedObject(field, ct_pk)
```

Generates fake django RelatedObject

```
relatives.utils.get_admin_url(obj)
```

Return admin URL for given object (raise NoReverseMatch on error)

relatives.utils.object_edit_link(edit_text=None, blank_text=None)

Return function that takes an object and returns admin link to object

Arguments:

- edit_text is displayed in link text
- blank_text is displayed in unlinked text (when no admin link)

edit_text defaults to the object's unicode representation and blank_text defaults to the object's unicode
representation if edit_text is None and an empty string otherwise

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```
relatives.utils.object_link(obj)
```

Return admin link to given object or blank text if no link

Equivalent to object_edit_link()(obj)

1.2.2 Template Tags

```
relatives.templatetags.relatives.contents_or_fk_link (field)
```

Return field contents or link to related object if foreign key field

Example Usage:

```
{% load relatives %}
{{ field|contents_or_fk_link }}
```

```
relatives.templatetags.relatives.related_objects(obj)
```

Return list of objects related to the given model instance

Example Usage:

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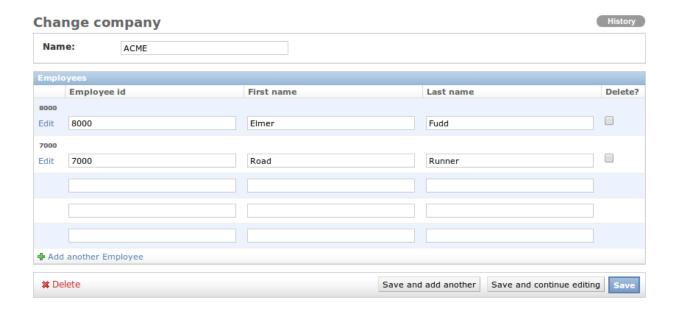
Contributing

Visit the project on Github to view the source, submit issues and pull requests.

CHAPTER 3

Examples

3.1 Turn read-only foreign key fields into hyperlinks



3.2 Link to child objects in the sidebar



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