django-registration-redux Documentation

Release 2.4

James Bennett

Contents

1	Quick start guide	3
2	Release notes	9
3	Upgrade guide	11
4	The default backend	15
5	The "simple" (one-step) backend	19
6	The admin approval backend	21
7	Forms for user registration	23
8	Registration views	25
9	Custom signals used by django-registration-redux	27
10	Frequently-asked questions	29
Рy	thon Module Index	33

This documentation covers the 2.4 release of django-registration-redux, a simple but extensible application providing user registration functionality for Django powered websites.

Although nearly all aspects of the registration process are customizable, out-of-the-box support is provided for the following use cases:

- One-phase registration, where a user signs up and is immediately active and logged in.
- Two-phase registration, consisting of initial signup followed by a confirmation email with instructions for activating the new account.
- Three-phase registration, where a user signs up, confirms their account via email, and then an admin approves the account allowing the user to login.

To get up and running quickly, consult the *quick-start guide*, which describes all the necessary steps to install django-registration-redux and configure it for the default workflow. For more detailed information, including how to customize the registration process (and support for alternate registration systems), read through the documentation listed below.

If you are upgrading from a previous release, please read the CHANGELOG for information on what's changed.

Contents:

Contents 1

2 Contents

CHAPTER 1

Quick start guide

Before installing django-registration-redux, you'll need to have a copy of Django already installed. For the 2.4 release, Django 1.11 or newer is required.

For further information, consult the Django download page, which offers convenient packaged downloads and installation instructions.

1.1 Installing django-registration-redux

There are several ways to install django-registration-redux:

- Automatically, via a package manager.
- Manually, by downloading a copy of the release package and installing it yourself.
- Manually, by performing a Git checkout of the latest code.

It is also highly recommended that you learn to use virtualenv for development and deployment of Python software; virtualenv provides isolated Python environments into which collections of software (e.g., a copy of Django, and the necessary settings and applications for deploying a site) can be installed, without conflicting with other installed software. This makes installation, testing, management and deployment far simpler than traditional site-wide installation of Python packages.

1.1.1 Automatic installation via a package manager

Several automatic package-installation tools are available for Python; the recommended one is pip.

Using pip, type:

```
pip install django-registration-redux
```

It is also possible that your operating system distributor provides a packaged version of django-registration-redux. Consult your operating system's package list for details, but be aware that third-party distributions may be providing

older versions of django-registration-redux, and so you should consult the documentation which comes with your operating system's package.

1.1.2 Manual installation from a downloaded package

If you prefer not to use an automated package installer, you can download a copy of django-registration-redux and install it manually. The latest release package can be downloaded from django-registration-redux's listing on the Python Package Index.

Once you've downloaded the package, unpack it (on most operating systems, simply double-click; alternately, type tar zxvf django-registration-redux-x.x.tar.gz at a command line on Linux, Mac OS X or other Unix-like systems). This will create the directory django-registration-redux-x.x, which contains the setup.py installation script. From a command line in that directory, type:

```
python setup.py install
```

Note that on some systems you may need to execute this with administrative privileges (e.g., sudo python setup.py install).

1.1.3 Manual installation from a Git checkout

If you'd like to try out the latest in-development code, you can obtain it from the django-registration-redux repository, which is hosted at Github and uses Git for version control. To obtain the latest code and documentation, you'll need to have Git installed, at which point you can type:

```
git clone https://github.com/macropin/django-registration.git
```

You can also obtain a copy of a particular release of django-registration-redux by specifying the \neg b argument to git clone; each release is given a tag of the form vX.Y, where "X.Y" is the release number. So, for example, to check out a copy of the 2.4 release, type:

```
git clone -b v1.0 https://github.com/macropin/django-registration.git
```

In either case, this will create a copy of the django-registration-redux Git repository on your computer; you can then add the django-registration-redux directory inside the checkout your Python import path, or use the setup.py script to install as a package.

1.2 Basic configuration and use

Once installed, you can add django-registration-redux to any Django-based project you're developing. The default setup will enable user registration with the following workflow:

- 1. A user signs up for an account by supplying a username, email address and password.
- 2. From this information, a new User object is created, with its is_active field set to False. Additionally, an activation key is generated and stored, and an email is sent to the user containing a link to click to activate the account.
- 3. Upon clicking the activation link, the new account is made active (the is_active field is set to True); after this, the user can log in.

Note that the default workflow requires django.contrib.auth to be installed, and it is recommended that django.contrib.sites be installed as well. You will also need to have a working mail server (for sending

activation emails), and provide Django with the necessary settings to make use of this mail server (consult Django's email-sending documentation for details).

1.2.1 Settings

Begin by adding registration to the INSTALLED_APPS setting of your project, and specifying one additional setting:

- **ACCOUNT_ACTIVATION_DAYS** This is the number of days users will have to activate their accounts after registering. If a user does not activate within that period, the account will remain permanently inactive and may be deleted by maintenance scripts provided in django-registration-redux.
- **REGISTRATION_DEFAULT_FROM_EMAIL** Optional. If set, emails sent through the registration app will use this string. Falls back to using Django's built-in DEFAULT_FROM_EMAIL setting.
- **REGISTRATION_EMAIL_HTML** Optional. If this is *False*, registration emails will be send in plain text. If this is *True*, emails will be sent as HTML. Defaults to *True*.
- **REGISTRATION_AUTO_LOGIN** Optional. If this is *True*, your users will automatically log in when they click on the activation link in their email. Defaults to *False*.
- **ACCOUNT_AUTHENTICATED_REGISTRATION_REDIRECTS** Optional. If this is *True*, your users will automatically be redirected to LOGIN_REDIRECT_URL when trying to access the RegistrationView. Defaults to *True*.
- **REGISTRATION_USE_SITE_EMAIL** Optional. If this is *True*, the Site object will determine the domain that emails are sent. The REGISTRATION_SITE_USER_EMAIL setting must be set if this is *True*. Defaults to *False*.
- **REGISTRATION_SITE_USER_EMAIL** Required if REGISTRATION_USE_SITE_EMAIL is set. Determines the user that emails are sent by. For example, if this is set to admin emails will be sent from admin@<your-site-domain.com>.

For example, you might have something like the following in your Django settings file:

```
INSTALLED_APPS = (
    'django.contrib.sites',
    'registration', #should be immediately above 'django.contrib.admin'
    'django.contrib.admin',
    # ...other installed applications...
)

ACCOUNT_ACTIVATION_DAYS = 7 # One-week activation window; you may, of course, use audifferent value.
REGISTRATION_AUTO_LOGIN = True # Automatically log the user in.
```

Once you've done this, run python manage.py migrate to install the model used by the default setup. Note, in order for the templates to properly work, the registration app must appear above django.contrib.admin.

1.2.2 Setting up URLs

The default backend includes a Django URLconf which sets up URL patterns for the views in django-registration-redux, as well as several useful views in django.contrib.auth (e.g., login, logout, password change/reset). This URLconf can be found at registration.backends.default.urls, and so can simply be included in your project's root URL configuration. For example, to place the URLs under the prefix /accounts/, you could add the following to your project's root URLconf:

```
url(r'^accounts/', include('registration.backends.default.urls')),
```

Users would then be able to register by visiting the URL /accounts/register/, login (once activated) at /accounts/login/, etc.

Another URLConf is also provided – at registration.auth_urls – which just handles the Django auth views, should you want to put those at a different location.

1.2.3 Templates

The templates in django-registration-redux assume you have a base.html template in your project's template directory. This base template should include a title, meta, and content block. The title block should allow customization of the <title> tag. The meta block should appear within the <head> tag to allow for custom <meta tags for security reasons. The content block should be within the <body> tag. Other than that, every template needed is included. You can extend and customize the included templates as needed. To customize the templates, create a registration folder where the template loader is configured to find templates. Copy the existing templates from the installed package or for your version on Github and modify them as necessary. Some of the templates you'll probably want to customize are covered here:

Note that, with the exception of the templates used for account activation emails, all of these are rendered using a RequestContext and so will also receive any additional variables provided by context processors.

registration/registration_form.html

Used to show the form users will fill out to register. By default, has the following context:

form The registration form. This will be an instance of some subclass of django.forms.Form; consult Django's forms documentation for information on how to display this in a template.

registration/registration_complete.html

Used after successful completion of the registration form. This template has no context variables of its own, and should simply inform the user that an email containing account-activation information has been sent.

registration/activate.html

Used if account activation fails. With the default setup, has the following context:

activation_key The activation key used during the activation attempt.

registration/activation complete.html

Used after successful account activation. This template has no context variables of its own, and should simply inform the user that their account is now active.

registration/activation_email_subject.txt

Used to generate the subject line of the activation email. Because the subject line of an email must be a single line of text, any output from this template will be forcibly condensed to a single line before being used. This template has the following context:

activation_key The activation key for the new account.

expiration_days The number of days remaining during which the account may be activated.

site An object representing the site on which the user registered; depending on whether django.contrib. sites is installed, this may be an instance of either django.contrib.sites.models.Site (if the sites application is installed) or django.contrib.sites.models.RequestSite (if not). Consult the documentation for the Django sites framework for details regarding these objects' interfaces.

registration/activation_email.txt

IMPORTANT: If you override this template, you must also override the HTML version (below), or disable HTML emails by adding REGISTRATION_EMAIL_HTML = False to your settings.py.

Used to generate the text body of the activation email. Should display a link the user can click to activate the account. This template has the following context:

activation_key The activation key for the new account.

expiration days The number of days remaining during which the account may be activated.

site An object representing the site on which the user registered; depending on whether django.contrib. sites is installed, this may be an instance of either django.contrib.sites.models.Site (if the sites application is installed) or django.contrib.sites.models.RequestSite (if not). Consult the documentation for the Django sites framework for details regarding these objects' interfaces.

user The new user account

registration/activation email.html

This template is used to generate the html body of the activation email. Should display the same content as the text version of the activation email.

The context available is the same as the text version of the template.

registration/admin_approve_email_subject.txt

Used to generate the subject line of the approval email sent to the admin. Because the subject line of an email must be a single line of text, any output from this template will be forcibly condensed to a single line before being used. This template has the following context:

site An object representing the site on which the user registered; depending on whether django.contrib. sites is installed, this may be an instance of either django.contrib.sites.models.Site (if the sites application is installed) or django.contrib.sites.models.RequestSite (if not). Consult the documentation for the Django sites framework for details regarding these objects' interfaces.

registration/admin_approve_email.txt

IMPORTANT: If you override this template, you must also override the HTML version (below), or disable HTML emails by adding REGISTRATION_EMAIL_HTML = False to your settings.py.

Used to generate the text body of the approval email sent to the admin. Should display a link the user can click to activate the account. This template has the following context:

user The username of the user that requests approval for the new account.

site An object representing the site on which the user registered; depending on whether django.contrib. sites is installed, this may be an instance of either django.contrib.sites.models.Site (if the sites application is installed) or django.contrib.sites.models.RequestSite (if not). Consult the documentation for the Django sites framework for details regarding these objects' interfaces.

registration/admin_approve_email.html

This template is used to generate the html body of the approval email sent to the admin. Should display the same content as the text version of the approval email.

The context available is the same as the text version of the template.

registration/admin_approve_complete.html

Used after successful account approval. This template has no context variables of its own, and should simply inform the admin that the user account is now approved.

registration/admin approve complete email subject.txt

Used to generate the subject line of the admin approval complete email. Because the subject line of an email must be a single line of text, any output from this template will be forcibly condensed to a single line before being used. This template has the following context:

site An object representing the site on which the user registered; depending on whether django.contrib. sites is installed, this may be an instance of either django.contrib.sites.models.Site (if the sites application is installed) or django.contrib.sites.requests.RequestSite (if not). Consult the documentation for the Django sites framework for details regarding these objects' interfaces.

registration/admin_approve_complete_email.txt

IMPORTANT: If you override this template, you must also override the HTML version (below), or disable HTML emails by adding REGISTRATION_EMAIL_HTML = False to your settings.py.

Used after successful account activation. This template has the following context:

site An object representing the site on which the user registered; depending on whether django.contrib. sites is installed, this may be an instance of either django.contrib.sites.models.Site (if the sites application is installed) or django.contrib.sites.requests.RequestSite (if not). Consult the documentation for the Django sites framework for details regarding these objects' interfaces.

registration/admin_approve_complete_email.html

This template is used to generate the html body of the approval complete email sent to the user. Should display the same content as the text version of the approval complete email.

The context available is the same as the text version of the template.

$\mathsf{CHAPTER}\, 2$

Release notes

The 2.4 release of django-registration-redux supports Python 2.7, 3.4, 3.5, 3.6 and Django 1.11 and 2.0.

django-registration-redux Documentation, Release 2.4	

CHAPTER 3

Upgrade guide

The 2.4 release of django-registration-redux is not compatible with the legacy django-registration (previously maintained by James Bennett). Major backwards incompatible changes will be recorded here, but for a full list of changes between versions you should refer to the CHANGELOG.

3.1 Django version requirement

As of 2.4, django-registration-redux requires Django 1.11 or newer; older Django releases may work, but are officially unsupported. Additionally, django-registration-redux officially supports Python 2.7, 3.4, and 3.5, 3.6.

3.2 Backwards-incompatible changes

3.2.1 Version 2.4

• None

3.2.2 Version 2.3

• None

3.2.3 Version 2.2

• None

3.2.4 Version 2.1

• None

3.2.5 Version 2.0

- Removed support for Django < 1.11.
- Removed registration/urls.py in favor of registration/backends/default/urls.py

3.2.6 Version 1.9

• Change of return signature of RegistrationProfileManager.activate_user. A tuple containing the User instance and a boolean of whether or not said user was activated is now returned.

3.2.7 Version 1.8

• None

3.2.8 Version 1.7

• None

3.2.9 Version 1.6

• None

3.2.10 Version 1.5

- Support for Django 1.7 is removed, and Django 1.8 or newer is required.
- Change signature of RegistrationProfileManager.activate_user. site is now a required positional argument. See #244.

3.2.11 Version 1.4

• Remove unnecessary _RequestPassingFormView. See #56. Please ensure that you update any subclassed views to reference self.request instead of accepting request as an argument.

3.2.12 Version 1.3

• Django 1.7 or newer is required. Please ensure you upgrade your Django version before upgrading.

3.2.13 Version 1.2

• Native migration support breaks South compatibility: An initial native migration for Django > 1.7 has been provided. South users will need to configure a null migration with (SOUTH_MIGRATION_MODULES) in settings.py as shown below:

```
SOUTH_MIGRATION_MODULES = {
    'registration': 'registration.south_migrations',
```

• register method in RegistrationView has different parameters: The parameters of the 'register' method in RegistrationView have changed.

3.2.14 Version 1.1

- base.html template required: A *base.html* template is now assumed to exist. Please ensure that your project provides one for django-registration-redux to inherit from.
- HTML email templates: django-registration-redux now uses HTML email templates. If you previously customized text email templates, you need to do the same with the new HTML templates.

diamas na mistration na drug Da sumantation, Balanca C 4		
django-registration-redux Documentation, Release 2.4	•	

The default backend

A default registration backend is bundled with django-registration-redux, as the module registration. backends.default, and implements a simple two-step workflow in which a new user first registers, then confirms and activates the new account by following a link sent to the email address supplied during registration.

4.1 Default behavior and configuration

To make use of this backend, simply include the URLConf registration.backends.default.urls at whatever location you choose in your URL hierarchy.

This backend makes use of the following settings:

- **ACCOUNT_ACTIVATION_DAYS** This is the number of days users will have to activate their accounts after registering. Failing to activate during that period will leave the account inactive (and possibly subject to deletion). This setting is required, and must be an integer.
- **REGISTRATION_OPEN** A boolean (either True or False) indicating whether registration of new accounts is currently permitted. This setting is optional, and a default of True will be assumed if it is not supplied.
- INCLUDE_REGISTER_URL A boolean (either True or False) indicating whether the view for registering accounts should be included in the urlpatterns of the application backend.

REGISTRATION_FORM A string dotted path to the desired registration form.

ACTIVATION_EMAIL_SUBJECT A string slashed path to the desired template for the activation email subject.

ACTIVATION_EMAIL_BODY A string slashed path to the desired template for the activation email body.

ACTIVATION_EMAIL_HTML A string slashed path tot the desired template for the activation email html.

By default, this backend uses registration.forms.RegistrationForm as its form class for user registration; this can be overridden by passing the keyword argument form_class to the register() view.

Two views are provided: registration.backends.default.views.RegistrationView and registration.backends.default.views.ActivationView. These views subclass django-registration-redux's base RegistrationView and ActivationView, respectively, and implement the two-step registration/activation process.

Upon successful registration – not activation – the default redirect is to the URL pattern named registration_complete; this can be overridden in subclasses by changing $success_url$ or implementing $get_success_url$ ()

Upon successful activation, the default redirect is to the URL pattern named registration_activation_complete; this can be overridden in subclasses by implementing get_success_url().

4.2 How account data is stored for activation

During registration, a new instance of django.contrib.auth.models.User is created to represent the new account, with the is_active field set to False. An email is then sent to the email address of the account, containing a link the user must click to activate the account; at that point the is_active field is set to True, and the user may log in normally.

Activation is handled by generating and storing an activation key in the database, using the following model:

class registration.models.RegistrationProfile

A simple representation of the information needed to activate a new user account. This is **not** a user profile; it simply provides a place to temporarily store the activation key and determine whether a given account has been activated.

Has the following fields:

user

A ForeignKey to django.contrib.auth.models.User, representing the user account for which activation information is being stored.

activation_key

A 40-character CharField, storing the activation key for the account. The activation key is the hexdigest of a SHA1 hash.

activated

A BooleanField, storing whether or not the User has activated their account. Storing this independent from self.user.is_active allows accounts to be deactivated and prevent being reactivated without authorization.

And the following methods:

activation_key_expired()

Determines whether this account's activation key has expired, and returns a boolean (True if expired, False otherwise). Uses the following algorithm:

- 1. If activated is True, the account has already been activated and so the key is considered to have expired.
- 2. Otherwise, the date of registration (obtained from the date_joined field of user) is compared to the current date; if the span between them is greater than the value of the setting ACCOUNT_ACTIVATION_DAYS, the key is considered to have expired.

Return type bool

send_activation_email(site[, request])

Sends an activation email to the address of the account.

The activation email will make use of two templates: registration/activation_email_subject.txt and registration/activation_email.txt, which are used for the subject of the email and the body of the email, respectively. Each will receive the following context:

activation_key The value of activation_key.

- **expiration_days** The number of days the user has to activate, taken from the setting ACCOUNT_ACTIVATION_DAYS.
- site An object representing the site on which the account was registered; depending on whether django.contrib.sites is installed, this may be an instance of either django.contrib.sites.models.Site (if the sites application is installed) or django.contrib.sites.models.RequestSite (if not). Consult the documentation for the Django sites framework for details regarding these objects' interfaces.
- **request** Django's HttpRequest object for better flexibility. When provided, it will also provide all the data via installed template context processors which can provide even more flexibility by using many Django's provided and custom template context processors to provide more variables to the template.

Because email subjects must be a single line of text, the rendered output of registration/activation_email_subject.txt will be forcibly condensed to a single line.

Parameters

- **site** (django.contrib.sites.models.Site or django.contrib. sites.models.RequestSite) An object representing the site on which account was registered.
- request (django.http.request.HttpRequest) Optional Django's HttpRequest object from view which if supplied will be passed to the template via RequestContext. As a consequence, all installed TEMPLATE_CONTEXT_PROCESSORS will be used to populate context.

Return type None

Additionally, RegistrationProfile has a custom manager (accessed as RegistrationProfile. objects):

class registration.models.RegistrationManager

This manager provides several convenience methods for creating and working with instances of RegistrationProfile:

activate user(activation key, site)

Validates activation_key and, if valid, activates the associated account by setting its is_active field to True. To prevent re-activation of accounts, the activated of the RegistrationProfile for the account will be set to True after successful activation.

Returns a tuple of (User, activated) representing the account if activation is successful and whether the User was activated or not.

Parameters activation_key (string, a 40-character SHA1 hexdigest) — The activation key to use for the activation.

Return type (User, "bool)

delete_expired_users()

Removes expired instances of RegistrationProfile, and their associated user accounts, from the

database. This is useful as a periodic maintenance task to clean out accounts which registered but never activated.

Accounts to be deleted are identified by searching for instances of <code>RegistrationProfile</code> with expired activation keys and with associated user accounts which are inactive (have their <code>is_active</code> field set to <code>False</code>). To disable a user account without having it deleted, simply delete its associated <code>RegistrationProfile</code>; any <code>User</code> which does not have an associated <code>RegistrationProfile</code> will not be deleted.

A custom management command is provided which will execute this method, suitable for use in cron jobs or other scheduled maintenance tasks: manage.py cleanupregistration.

Return type None

create_inactive_user (site[, new_user=None, send_email=True, request=None, **user_info])
Creates a new, inactive user account and an associated instance of RegistrationProfile, sends the activation email and returns the new User object representing the account.

Parameters

- new_user (django.contrib.auth.models.AbstractBaseUser`) The user instance.
- **user_info** (*dict*) The fields to use for the new account.
- **site** (django.contrib.sites.models.Site or django.contrib. sites.models.RequestSite) An object representing the site on which the account is being registered.
- **send_email** (bool) If True, the activation email will be sent to the account (by calling RegistrationProfile.send_activation_email()). If False, no email will be sent (but the account will still be inactive)
- request (django.http.request.HttpRequest) If send_email parameter is True and if request is supplied, it will be passed to the email templates for better flexibility. Please take a look at the sample email templates for better explanation how it can be used.

Return type User

create_profile (user)

Creates and returns a RegistrationProfile instance for the account represented by user.

The RegistrationProfile created by this method will have its activation_key set to a SHA1 hash generated from a combination of the account's username and a random salt.

Parameters user (User) - The user account; an instance of django.contrib.auth. models.User.

Return type RegistrationProfile

The "simple" (one-step) backend

As an alternative to *the default backend*, and an example of writing alternate workflows, django-registration-redux bundles a one-step registration system in registration.backend.simple. This backend's workflow is deliberately as simple as possible:

- 1. A user signs up by filling out a registration form.
- 2. The user's account is created and is active immediately, with no intermediate confirmation or activation step.
- 3. The new user is logged in immediately.

5.1 Configuration

To use this backend, simply include the URLconf registration.backends.simple.urls somewhere in your site's own URL configuration. For example:

```
url(r'^accounts/', include('registration.backends.simple.urls')),
```

No additional settings are required, but one optional setting is supported:

REGISTRATION_OPEN A boolean (either True or False) indicating whether registration of new accounts is currently permitted. A default of True will be assumed if this setting is not supplied.

SIMPLE_BACKEND_REDIRECT_URL Redirection url after successful registration. Default value is /

The default form class used for account registration will be registration.forms.RegistrationForm, although this can be overridden by supplying a custom URL pattern for the registration view and passing the keyword argument form_class, or by subclassing registration.backends.simple.views. RegistrationView and either overriding form_class or implementing get_form_class().

django-registration-redux Documentation, Release 2.4	4

The admin approval backend

As an alternative to *the default backend*, and an example of writing alternate workflows, django-registration-redux bundles an approval-needed registration system in registration.backend.admin_approval. This backend's workflow is similar to the default with one extra step of approval from an admin. Specifically the steps are the following:

- 1. A user signs up by filling out a registration form.
- 2. The user confirms the account by following the link sent to the email address supplied during registration.
- 3. An admin receives an email with a link that will approve the user registration.
- 4. When the admin approves the request, the user receives an email informing them that they can now login.

6.1 Configuration

To make use of this backend, simply include the URLConf registration.backends.admin_approval.urls at whatever location you choose in your URL hierarchy.

This backend makes use of the same settings documented in the default backend plus the following settings:

REGISTRATION_ADMINS A list with the same structure as the ADMINS Django setting containing names and emails. Approval emails will be sent to the emails defined here. If this setting is not set (or is empty), emails defined in ADMINS will be used.

django-registration-redux Documentation, Release 2.4			

Forms for user registration

Several form classes are provided with django-registration-redux, covering common cases for gathering account information and implementing common constraints for user registration. These forms were designed with django-registration-redux's *default backend* in mind, but may also be useful in other situations.

class registration.forms.RegistrationForm

A simple form for registering an account. Has the following fields, all of which are required:

- **username** The username to use for the new account. This is represented as a text input which validates that the username is unique, consists entirely of alphanumeric characters and underscores and is at most 30 characters in length.
- **email** The email address to use for the new account. This is represented as a text input which accepts email addresses up to 75 characters in length.
- password1 The password to use for the new account. This represented as a password input (input type="password" in the rendered HTML).
- password2 The password to use for the new account. This represented as a password input (input type="password" in the rendered HTML). Password mismatches are recorded as errors of password2.

The constraints on usernames and email addresses match those enforced by Django's default authentication backend for instances of django.contrib.auth.models.User. The repeated entry of the password serves to catch typos.

class registration.forms.RegistrationFormTermsOfService

A subclass of RegistrationForm which adds one additional, required field:

tos A checkbox indicating agreement to the site's terms of service/user agreement.

class registration.forms.RegistrationFormUniqueEmail

A subclass of RegistrationForm which enforces uniqueness of email addresses in addition to uniqueness of usernames.

class registration.forms.RegistrationFormNoFreeEmail

A subclass of <code>RegistrationForm</code> which disallows registration using addresses from some common free email providers. This can, in some cases, cut down on automated registration by spambots.

By default, the following domains are disallowed for email addresses:

- aim.com
- aol.com
- email.com
- qmail.com
- googlemail.com
- hotmail.com
- hushmail.com
- msn.com
- mail.ru
- mailinator.com
- live.com
- yahoo.com
- outlook.com

To change this, subclass this form and set the class attribute bad_domains to a list of domains you wish to disallow.

7.1 Multiple Form Inheritance

Multiple RegistrationForm subclasses can be inherited into one class. For instance, if your project requires a terms of service and a unique email upon registration, those subclasses can be inherited into a single class. That would look like this:

```
# myapp/forms.py
class CustomForm(RegistrationFormTermsOfService, RegistrationFormUniqueEmail):
    pass
```

NOTE: If inheriting both RegistrationFormNoFreeEmail and RegistrationFormUniqueEmail. RegistrationFormNoFreeEmail must be inherited first, like this:

```
# myapp/forms.py
class CustomForm(RegistrationFormNoFreeEmail, RegistrationFormUniqueEmail):
   pass
```

You can also add any customization to the form, to add additional fields for example. Once you have built your form you must update the REGISTRATION_FORM reflect the string dotted path to the form you wish to use. For our example in settings.py you would change REGISTRATION_FORM = 'myapp.forms.CustomForm'.

Registration views

In order to allow the utmost flexibility in customizing and supporting different workflows, django-registration-redux makes use of Django's support for class-based views. Included in django-registration-redux are two base classes which can be subclassed to implement whatever workflow is required.

class registration.views.RegistrationView

A subclass of Django's FormView, which provides the infrastructure for supporting user registration.

Useful places to override or customize on a RegistrationView subclass are:

disallowed_url

The URL to redirect to when registration is disallowed. Should be a string, the name of a URL pattern. Default value is registration_disallowed.

form class

The form class to use for user registration. Can be overridden on a per-request basis (see below). Should be the actual class object; by default, this class is registration.forms.RegistrationForm.

success url

The URL to redirect to after successful registration. Should be a string, the name of a URL pattern, or a 3-tuple of arguments suitable for passing to Django's redirect shortcut. Can be overridden on a per-request basis (see below). Default value is None, so that per-request customization is used instead.

template_name

The template to use for user registration. Should be a string. Default value is registration/registration_form.html.

get_form_class()

Select a form class to use on a per-request basis. If not overridden, will use form_class. Should be the actual class object.

get_success_url(user)

Return a URL to redirect to after successful registration, on a per-request or per-user basis. If not overridden, will use <code>success_url</code>. Should be a string, the name of a URL pattern, or a 3-tuple of arguments suitable for passing to Django's redirect shortcut.

registration allowed()

Should return a boolean indicating whether user registration is allowed, either in general or for this specific request.

register (form)

Actually perform the business of registering a new user. Receives the registration form. Should return the new user who was just registered.

class registration.views.ActivationView

A subclass of Django's TemplateView which provides support for a separate account-activation step, in workflows which require that.

Useful places to override or customize on an ActivationView subclass are:

template_name

The template to use for user activation. Should be a string. Default value is registration/activate.html.

activate(*args, **kwargs)

Actually perform the business of activating a user account. Receives any positional or keyword arguments passed to the view. Should return the activated user account if activation is successful, or any value which evaluates False in boolean context if activation is unsuccessful.

get_success_url (user)

Return a URL to redirect to after successful registration, on a per-request or per-user basis. If not overridden, will use success_url. Should be a string, the name of a URL pattern, or a 3-tuple of arguments suitable for passing to Django's redirect shortcut.

class registration.views.ResendActivationView

A subclass of Django's FormView' https://docs.djangoproject.com/en/1.11/ref/class-based-views/generic-editing/#formview, which provides support for resending an activation email to a user.

Useful places to override or customize on an ResendActivationView subclass are:

template_name

The template to use for user activation. Should be a string. Default value is registration/resend_activation_form.html.

resend_activation (self, form)

Given an email, look up user by email and resend activation key if user is not already activated or previous activation key has not expired. Note that if multiple users exist with the given email, no emails will be sent. Returns True if activation key was successfully sent, False otherwise.

render_form_submitted_template(self, form)

Renders resend activation complete template with the submitted email.

Custom signals used by django-registration-redux

Much of django-registration-redux's customizability comes through the ability to write and use registration backends implementing different workflows for user registration. However, there are many cases where only a small bit of additional logic needs to be injected into the registration process, and writing a custom backend to support this represents an unnecessary amount of work. A more lightweight customization option is provided through two custom signals which backends are required to send at specific points during the registration process; functions listening for these signals can then add whatever logic is needed.

For general documentation on signals and the Django dispatcher, consult Django's signals documentation. This documentation assumes that you are familiar with how signals work and the process of writing and connecting functions which will listen for signals.

registration.signals.user_activated

Sent when a user account is activated (not applicable to all backends). Provides the following arguments:

sender The backend class used to activate the user.

user An instance of django.contrib.auth.models.User representing the activated account.

request The HttpRequest in which the account was activated.

registration.signals.user_registered

Sent when a new user account is registered. Provides the following arguments:

sender The backend class used to register the account.

user An instance of django.contrib.auth.models.User representing the new account.

request The HttpRequest in which the new account was registered.



Frequently-asked questions

The following are miscellaneous common questions and answers related to installing/using django-registration-redux, culled from bug reports, emails and other sources.

10.1 General

What license is django-registration-redux under? django-registration-redux is offered under a three-clause BSD-style license; this is an OSI-approved open-source license, and allows you a large degree of freedom in modifying and redistributing the code. For the full terms, see the file LICENSE which came with your copy of django-registration-redux; if you did not receive a copy of this file, you can view it online.

Why are the forms and models for the default backend not in the default backend? The model and manager used by the default backend are in registration.models, and the default form class (and various subclasses) are in registration.forms; logically, they might be expected to exist in registration. backends.default, but there are several reasons why that's not such a good idea:

- Older versions of django-registration-redux made use of the model and form classes, and moving them
 would create an unnecessary backwards incompatibility: import statements would need to be changed,
 and some database updates would be needed to reflect the new location of the RegistrationProfile
 model.
- 2. Due to the design of Django's ORM, the RegistrationProfile model would end up with an app_label of default, which isn't particularly descriptive and may conflict with other applications. By keeping it in registration.models, it retains an app_label of registration, which more accurately reflects what it does and is less likely to cause problems.
- 3. Although the RegistrationProfile model and the various *form classes* are used by the default backend, they can and are meant to be reused as needed by other backends. Any backend which uses an activation step should feel free to reuse the RegistrationProfile model, for example, and the registration form classes are in no way tied to a specific backend (and cover a number of common use cases which will crop up regardless of the specific backend logic in use).

10.2 Installation and setup

How do I install django-registration-redux? Full instructions are available in the quick start guide.

Do I need to put a copy of django-registration-redux in every project I use it in? No; putting applications in your project directory is a very bad habit, and you should stop doing it. If you followed the instructions mentioned above, django-registration-redux was installed into a location that's on your Python import path, so you'll only ever need to add registration to your INSTALLED_APPS setting (in any project, or in any number of projects), and it will work.

10.3 Configuration

Do I need to rewrite the views to change the way they behave?

Not always. Any behavior controlled by an attribute on a class-based view can be changed by passing a different value for that attribute in the URLConf. See Django's class-based view documentation for examples of this.

For more complex or fine-grained control, you will likely want to subclass *RegistrationView* or *ActivationView*, or both, add your custom logic to your subclasses, and then create a URLConf which makes use of your subclasses.

I don't want to write my own URLconf because I don't want to write patterns for all the auth views! You're in luck, then; django-registration-redux provides a URLconf which *only* contains the patterns for the auth views, and which you can include in your own URLconf anywhere you'd like; it lives at registration. auth_urls.

I don't like the names you've given to the URL patterns! In that case, you should feel free to set up your own URLconf which uses the names you want.

10.4 Troubleshooting

I've got functions listening for the registration/activation signals, but they're not getting called!

The most common cause of this is placing django-registration-redux in a sub-directory that's on your Python import path, rather than installing it directly onto the import path as normal. Importing from django-registration-redux in that case can cause various issues, including incorrectly connecting signal handlers. For example, if you were to place django-registration-redux inside a directory named django_apps, and refer to it in that manner, you would end up with a situation where your code does this:

```
from django_apps.registration.signals import user_registered
```

But django-registration-redux will be doing:

```
from registration.signals import user_registered
```

From Python's point of view, these import statements refer to two different objects in two different modules, and so signal handlers connected to the signal from the first import will not be called when the signal is sent using the second import.

To avoid this problem, follow the standard practice of installing django-registration-redux directly on your import path and always referring to it by its own module name: registration (and in general, it is always a good idea to follow normal Python practices for installing and using Django applications).

I want to use custom templates, but django keeps using the admin templates instead of mine!

To fix this, make sure that in the INSTALLED_APPS of your settings.py the entry for the registration app is placed above django.contrib.admin.

10.5 Tips and tricks

- **How do I log a user in immediately after registration or activation?** Take a look at the implementation of *the sim- ple backend*, which logs a user in immediately after registration.
- **How do I re-send an activation email?** Assuming you're using *the default backend*, a custom admin action is provided for this; in the admin for the <code>RegistrationProfile</code> model, simply click the checkbox for the user(s) you'd like to re-send the email for, then select the "Re-send activation emails" action.
- **How do I manually activate a user?** In the default backend, a custom admin action is provided for this. In the admin for the RegistrationProfile model, click the checkbox for the user(s) you'd like to activate, then select the "Activate users" action.
- How do I send an email with html content? By default, the email content will only be plain text. To allow HTML content to be sent, you should add a url pattern before including django-registration's urls (i.e registration.backends.default.urls). For example, if your email template is registration/password reset email.html, your urls.py could look like:

```
from django.conf.urls import url, include
from django.contrib.auth import views as auth_views
from django.urls import reverse_lazy

url(r'^password/reset/$',
    auth_views.PasswordResetView.as_view(
        success_url=reverse_lazy('auth_password_reset_done'),
        html_email_template_name='registration/password_reset_email.html'
), name='auth_password_reset'),

# other url patterns

# last the default registration backends
url(r'', include('registration.backends.default.urls')),
```

We provide default HTML templates in the registration/templates/registration directory.

See also:

• Django's authentication documentation; Django's authentication system is used by django-registration-redux's default configuration.

django-registration-redux Documentation, Release 2.4		

Python Module Index

r

```
registration.backends.admin_approval, 19
registration.backends.default,13
registration.backends.simple,18
registration.forms,21
registration.signals,26
registration.views,24
```

34 Python Module Index

Index

A	R
activate() (registration.views.ActivationView method), 26 activate_user() (registration.models.RegistrationManager	register() (registration.views.RegistrationView method), 26 registration.backends.admin_approval (module), 19 registration.backends.default (module), 13 registration.backends.simple (module), 18 registration.forms (module), 21 registration.signals (module), 26 registration.views (module), 24 registration_allowed() (registration.views.RegistrationView method), 25 RegistrationForm (class in registration.forms), 23
C	RegistrationFormNoFreeEmail (class in registra-
create_inactive_user() (registra- tion.models.RegistrationManager method), 18 create_profile() (registra- tion.models.RegistrationManager method), 18	tion.forms), 23 RegistrationFormTermsOfService (class in registration.forms), 23 RegistrationFormUniqueEmail (class in registration.forms), 23 RegistrationManager (class in registration.models), 17 RegistrationProfile (class in registration.models), 16 RegistrationView (class in registration.views), 25
D	render_form_submitted_template() (registra-
delete_expired_users() (registration.models.RegistrationManager method), 17 disallowed_url (registration.views.RegistrationView attribute), 25	tion.views.ResendActivationView method), 26 resend_activation() (registration.views.ResendActivationView method), 26 Record Activation View (along in registration prices) 26
F	ResendActivationView (class in registration.views), 26
form_class (registration.views.RegistrationView attribute), 25	S send_activation_email() (registration.models.RegistrationProfile method), 16
get_form_class() (registration.views.RegistrationView method), 25	success_url (registration.views.RegistrationView attribute), 25
get_success_url() (registration.views.ActivationView method), 26	Т
get_success_url() (registration.views.RegistrationView method), 25	template_name (registration.views.ActivationView attribute), 26

django-registration-redux Documentation, Release 2.4

```
template_name (registration.views.RegistrationView attribute), 25
template_name (registration.views.ResendActivationView attribute), 26
```



user (registration.models.RegistrationProfile attribute), 16 user_activated (in module registration.signals), 27 user_registered (in module registration.signals), 27

36 Index