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# Userena Documentation

*Release 2.0.1*

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This documentation covers 2.0.1 release of django-userena application. A Django application that takes care of your account needs.



# CHAPTER 1

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## Why userena?

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Because we have done the hard work for you. Userena supplies you with signup, signin, account editing, privacy settings and private messaging. All you have to do is plug it into your project and you will have created account management with the following options:

- User has to **activate** their account by clicking on a activation link in an email sent to them.
- **Permissions** for viewing, changing and deleting accounts is implemented on an user and object basis with the help of django-guardian.
- Optionally **secure** userena by using https. If you change the settings to use https, userena will switch to the secure protocol on it's views and emails.
- All **templates** are already supplied for you. Only override those that don't fit with your needs.
- Mugshots are supplied by **Gravatar** or uploaded by the user. The default mugshot can be set in the settings.
- **Messaging** system between users that either get's displayed as conversations (iPhone like) or sorted per subject (Gmail).





## CHAPTER 2

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Help out

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Found a bug in userena? File an issue at Github. Have an improvement? Fork it and add it, or if you can't code it, contact us to do it.



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### Deprecation warnigns

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2.0.0 version:

- `userena.utils.get_user_model()` is deprecated and will be removed in version 3.0.0. Use `django.contrib.auth.get_user_model()`



## CHAPTER 4

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### Changes and releases

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For changes history and available releases see following pages on GitHub repository:

- [UDATES.md](#)
- [releases](#)



### Installation.

Before install `django-userena`, you'll need to have a copy of [Django 1.5](#) or newer installed. `django-userena` is tested under Python 2.6, 2.7, 3.2, 3.3, 3.4, and 3.5 (all versions on which Django 1.5 and higher is declared to work)

For further information, consult the [Django download page](#), which offers convenient packaged downloads and installation instructions.

### Support for Django versions below 1.7

Starting from version 2.0.0 `django-userena` supports Django 1.9 release and drops the support for Django 1.4. It is tested and works for all releases from 1.5 to 1.9 but some older versions of Django require some additional work in order to ensure full compatibility:

- Django versions below 1.7 require South for data migrations. `django-userena` provides new-style migrations for built-in Django schema migrations engine (available starting from Django 1.7) but provides old South migrations in `userena.south_migrations` and `userena.contrib.umessages.south_migrations` sub-packages. South (starting from version 1.0.0) should be able to pick them easily if you still use it even for Django versions 1.7 or greater. Anyway, South support in `django-userena` is deprecated and will be removed in some future major release (3.0.0 or 4.0.0 version).
- `django-guardian` is one of the main dependencies of `django-userena` and every release of this package seems to drop some backwards compatibility without resonable versioning scheme. This is why for Django 1.5 and 1.6 you need to fix `django-guardian` on version 1.3.2 or lower manually.

### Installing `django-userena`.

You can install `django-userena` automagically with `pip`. Or by manually placing it on on your `PYTHON_PATH`. The recommended way is the shown in *Automatic installation with pip.*

*It is also recommended to use `virtualenv` to have an isolated python environment. This way it's possible to create a tailored environment for each project.*

### Automatic installation with pip.

Automatic install with `pip`. All you have to do is run the following command:

```
pip install django-userena
```

If you want to have a specific version of userena, you can do so by adding the following:

```
pip install django-userena==1.0.1
```

### Manual installation with easy\_install.

Clone the Git repository from Github. Then you can direct `easy_install` to the `setup.py` file. For ex.:

```
git clone git://github.com/bread-and-pepper/django-userena.git
cd django-userena
easy_install setup.py
```

### Automatic installation of development version with pip.

You can tell `pip` to install `django-userena` by supplying it with the git repository on Github. Do this by typing the following in your terminal:

```
pip install -e git+git://github.com/bread-and-pepper/django-userena.git#egg=userena
```

### Manual installation of development version with git.

Clone userena with:

```
git clone git://github.com/bread-and-pepper/django-userena.git
```

You now have a directory `django-userena` which contains the userena application. You can add userena to your `$PYTHONPATH` by symlinking it. For example:

```
cd YOUR_PYTHON_PATH
ln -s ~/src/django-userena/userena userena
```

Now userena is available to your project.

## Required settings

You need to make some changes Django settings if you want to use Userena in your project. This means modifying `AUTHENTICATION_BACKENDS`, `INSTALLED_APPS` and optionally `MIDDLEWARE_CLASSES`.

Begin by adding `userena`, `guardian` and `easy_thumbnails` to the `INSTALLED_APPS` in your `settings.py` file of your project. `django.contrib.sites` must also be present if it is not already (see [Django docs](#)).

Next add `UserenaAuthenticationBackend` and `ObjectPermissionBackend` also in your `settings.py` file, from `django-guardian`, at the top of `AUTHENTICATION_BACKENDS`. If you only have Django's default backend, adding `django-guardian` and that of `userena` will get the following:



```
AUTHENTICATION_BACKENDS = (
    'userena.backends.UserenaAuthenticationBackend',
    'guardian.backends.ObjectPermissionBackend',
    'django.contrib.auth.backends.ModelBackend',
)
```

## Start New App

Next, you need to create a new app on your Django project. In your Command Prompt shell, type: `python manage.py startapp accounts`. We are creating a new app for Userena titled 'accounts'.

Next, add `accounts` to the `INSTALLED_APPS` in your `settings.py` file.

## Email Backend

Userena uses the Django email facilities to send mail to users, for example after user signup for email verification. By default Django uses the SMTP backend, which may cause issues in development and/or if the default SMTP settings are not suitable for your environment. It is recommended to explicitly set the email backend provider in your `settings.py`. For example:

```
EMAIL_BACKEND = 'django.core.mail.backends.dummy.EmailBackend'
```

To use Gmail SMTP, you may use the following code in your `settings.py`:

```
EMAIL_USE_TLS = True
EMAIL_HOST = 'smtp.gmail.com'
EMAIL_PORT = 587
EMAIL_HOST_USER = 'yourgmailaccount@gmail.com'
EMAIL_HOST_PASSWORD = 'yourgmailpassword'
```

See: [Django Email Documentation](#)

## Profiles

Userena needs you to define the profile that is used by supplying Django's `AUTH_PROFILE_MODULE` setting. Userena supplies the following two base profiles for you that you should use for your own profile model by inheriting from them:

**UserenaBaseProfile** Basic profile that supplies your user with mugshots and the necessary fields for privacy settings.

**UserenaLanguageBaseProfile** Adds an extra field that lets the user define its preferred language after logging in to your site.

**IMPORTANT:** The above profiles are abstract models. This means that you cannot use them directly in `AUTH_PROFILE_MODULE` but you must create your own profile model which inherits from one of the above models. This models must also connect itself to the `User` model of Django.

```
from django.contrib.auth.models import User
from django.utils.translation import ugettext as _
from userena.models import UserenaBaseProfile

class MyProfile(UserenaBaseProfile):
    user = models.OneToOneField(User,
                               unique=True,
```

```
        verbose_name=_('user'),
        related_name='my_profile')
    favourite_snack = models.CharField(_('favourite snack'),
                                      max_length=5)
```

If you want the user have the ability to choose their default language in their profile, you must add `userena.middleware.UserenaLocaleMiddleware` at the end of `MIDDLEWARE_CLASSES` in your Django settings. This does require a profile model which has a language field. You can use the `UserenaLanguageBaseProfile` class of `userena` that does this for you.

## The URI's

Userena has a `URLconf` which sets all the urls and views for you. This should be included in your project's root `URLconf`.

For example, to place the URIs under the prefix `/accounts/`, you could add the following to your project's root `URLconf`. Add this code under `urlpatterns` in your `urls.py` file.

```
(r'^accounts/', include('userena.urls')),
```

This should have you a working accounts application for your project. See the *settings* for further configuration options.

## Required settings

Django-guardian requires you to set the `ANONYMOUS_USER_ID` setting. I always set this to `-1`. As noted before, you are also required to set the `AUTH_PROFILE_MODULE` to your custom defined profile.

For example, add the following into your `settings.py` file:

```
ANONYMOUS_USER_ID = -1

AUTH_PROFILE_MODULE = 'accounts.MyProfile'
```

To integrate Django with `userena` you should alter the following three settings to reflect the URI you have chosen for `userena`. For example, if `userena` lives under `accounts`:

```
USERENA_SIGNIN_REDIRECT_URL = '/accounts/%(username)s/'
LOGIN_URL = '/accounts/signin/'
LOGOUT_URL = '/accounts/signout/'
```

The above should supply you with a fully functional account management app for your project. You can look into the next chapter to fully customize `userena` to your likings.

To integrate `Userena` with your domain you must create a Site for it in the Django admin screen (e.g. <http://<yoursite.com>/admin/sites/>) and then put the id for that site in the `SITE_ID` setting variable.:

To look up your `site_id` open a shell in `manage.py` (`manage.py shell`) and:

Set `SITE_ID` to the id of the desired name.

## Permission check

Sometimes Django decides to skip installing the default permissions for a model. To check if all permissions are there, run the `check_permissions` in the management *Commands*.

## Settings

Userena comes with a few settings that enables you to tweak the user experience for you users. There are also a few Django settings that are relevant for Userena.

### Userena settings

#### **USERENA\_SIGNIN\_AFTER\_SIGNUP**

Default `False` (integer)

Boolean that defines if a user should be logged in after a successful sign up.

If `True`, `USERENA_ACTIVATION_REQUIRED` must be `False` for the sign-in to happen.

Note that `USERENA_SIGNIN_REDIRECT_URL` will not be respected for the automatic sign-in. The user will be redirect to the value of `'success_url'` in `userena.views.signup`.

You can override `'success_url'` in your `urls.py`. See the “How do I add extra fields to forms?” example in the FAQ, where the `'signup_form'` variable is overridden.

#### **USERENA\_SIGNIN\_REDIRECT\_URL**

Default `/accounts/%(username)s/` (string)

A string which defines the URI where the user will be redirected to after signin.

#### **USERENA\_ACTIVATION\_REQUIRED**

Default: `True` (integer)

Boolean that defines if a activation is required when creating a new user.

#### **USERENA\_ACTIVATION\_DAYS**

Default: `7` (integer)

A integer which stands for the amount of days a user has to activate their account. The user will be deleted when they still haven't activated their account after these amount of days by running the `cleanexpired` *command*.

#### **USERENA\_ACTIVATION\_NOTIFY**

Default: `True` (boolean)

A boolean that turns on/off the sending of a notification when `USERENA_ACTIVATION_NOTIFY_DAYS` away the activation of the user will expire and the user will be deleted.

#### **USERENA\_ACTIVATION\_NOTIFY\_DAYS**

Default: `2` (integer)

The amount of days, before the expiration of an account, that a notification get's send out. Warning the user of his coming demise.

## USERENA\_ACTIVATED

Default: `ALREADY_ACTIVATED` (string)

String that defines the value that the `activation_key` will be set to after a successful signup.

## USERENA\_REMEMBER\_ME\_DAYS

Default: `(gettext('a month'), 30)` (tuple)

A tuple containing a string and an integer which stand for the amount of days a user can choose to be remembered by your project. The string is the human readable version that gets displayed in the form. The integer stands for the amount of days that this string represents.

## USERENA\_FORBIDDEN\_USERNAMES

Default: `('signup', 'signout', 'signin', 'activate', 'me', 'password')` (tuple)

A tuple containing the names which cannot be used as username in the signup form.

## USERENA\_MUGSHOT\_GRAVATAR

Default: `True` (boolean)

A boolean defining if mugshots should fallback to [Gravatar](#) service when no mugshot is uploaded by the user.

## USERENA\_MUGSHOT\_GRAVATAR\_SECURE

Default: `USERENA_USE_HTTPS` (boolean)

A boolean defining if the secure URI of Gravatar is used. Defaults to the same value as `USERENA_USE_HTTPS`.

## USERENA\_MUGSHOT\_DEFAULT

Default: `identicon` (string)

A string for the default image used when no mugshot is found. This can be either a URI to an image or if `USERENA_MUGSHOT_GRAVATAR` is `True` one of the following options:

**404** Do not load any image if none is associated with the email hash, instead return an HTTP 404 (File Not Found) response.

**mm** Mystery-man, a simple, cartoon-style silhouetted outline of a person (does not vary by email hash).

**identicon** A geometric pattern based on an email hash.

**monsterid** A generated ‘monster’ with different colors, faces, etc.

**wavatar** Generated faces with differing features and backgrounds

## USERENA\_MUGSHOT\_SIZE

Default: `80` (int)

Integer defining the size (in pixels) of the sides of the mugshot image.

## USERENA\_MUGSHOT\_PATH

Default: `mugshots/` (string)

The default path that the mugshots will be saved to. Is appended to the `MEDIA_PATH` in your Django settings.

You can use the following options as arguments (f.ex. `mugshots/%(username)s/`):

**id** `User.id`

**username** `User.username`

**date** `User.date_joined`

**date\_now** Current date

## USERENA\_USE\_HTTPS

Default: `False` (boolean)

Boolean that defines if you have a secure version of your website. If so, userena will redirect sensitive URI's to the secure protocol.

## USERENA\_DEFAULT\_PRIVACY

Default: `registered` (string)

Defines the default privacy value for a newly registered user. There are three options:

**closed** Only the owner of the profile can view their profile.

**registered** All registered users can view their profile.

**open** All users (registered and anonymous) can view their profile.

## USERENA\_PROFILE\_DETAIL\_TEMPLATE

Default: `userena/profile_detail.html` (string)

Template to use for rendering user profiles. This allows you to specify a template in your own project which extends `userena/profile_detail.html`.

## USERENA\_PROFILE\_LIST\_TEMPLATE

Default: `userena/profile_list.html` (string)

Template to use for rendering users list. This allows you to specify a template in your own project which extends `userena/profile_list.html`.

## USERENA\_DISABLE\_PROFILE\_LIST

Default: `False` (boolean)

Boolean value that defines if the `profile_list` view is enabled within the project. If so, users can view a list of different profiles.

### **USERENA\_DISABLE\_SIGNUP**

Default: `False` (boolean)

Boolean value that defines if signups are disabled within the project. If so, users trying to sign up will be denied.

### **USERENA\_USE\_MESSAGES**

Default: `True` (boolean)

Boolean value that defines if userena should use the django messages framework to notify the user of any changes.

### **USERENA\_LANGUAGE\_FIELD**

Default: `language` (string)

The language field that is used in the custom profile to define the preferred language of the user.

### **USERENA\_WITHOUT\_USERNAMES**

Default: `False` (boolean)

Defines if usernames are used within userena. Currently it's often for the users convenience that only an email is used for identification. With this setting you get just that.

### **USERENA\_HIDE\_EMAIL**

Default: `False` (boolean)

Prevents email addresses from being displayed to other users if set to `True`.

### **USERENA\_HTML\_EMAIL**

Default: `False` (boolean)

If `True` multipart emails are generated using html templates.

### **USERENA\_USE\_PLAIN\_TEMPLATE**

Default: `True` (boolean)

Uses a text template for plain text part (when `USERENA_HTML_EMAIL = True`). When `USERENA_HTML_EMAIL = False`, plain text templates are always used for emails even if `USERENA_USE_PLAIN_TEMPLATE = False`.

### **USERENA\_REGISTER\_PROFILE**

Default: `True` (boolean)

If `True` userena will register the profile model with Django Admin for you. It uses a `GuardedModelAdmin` when registering. This allows per user object permissions to be set via the admin. If `False` you will have to register the profile with the Django Admin yourself.

## USERENA\_REGISTER\_USER

Default: `True` (boolean)

If `True` userena will first unregister the user model with the admin and then reregister the user model using a `GuardedModelAdmin`. This allows you to set per user object permissions. If `False` and you want to set per user object permissions on the user model via the admin you will have to unregister and reregister the user model with the Django Admin yourself.

## Django settings

### LOGIN\_URL

Default: `/accounts/login/` (string)

The URL where requests are redirected for login, especially when using the `login_required()` decorator.

In userena this URI normally would be `/accounts/signin/`.

### LOGOUT\_URL

Default: `/accounts/logout/` (string) `LOGIN_URL` counterpart.

In userena this URI normally would be `/accounts/signout/`.

### LOGIN\_REDIRECT\_URL

Default: `/accounts/profile/`

In userena this URI should point to the profile of the user. Thus a string of `/accounts/%(username)s/` is best.

### AUTH\_PROFILE\_MODULE

Default: `not defined`

This should point to the model that is your custom made profile.

## Signals

Userena contains a few signals which you can use in your own application if you want to have custom actions when an account gets changed. All signals are located in `userena/signals.py` file.

### signup\_complete

This signal gets fired when an user signs up at your site. Note: This doesn't mean that the user is activated. The signal provides you with the `user` argument which Django's `User` class.

### activation\_complete

A user has successfully activated their account. The signal provides you with the `user` argument which Django's `User` class.

## confirmation\_complete

A user has successfully changed their email. The signal provides you with the `user` argument which Django's `User` class, and the `old_email` argument which is the user's old email address as a string.

## password\_complete

A user has successfully changed their password. The signal provides you with the `user` argument which Django's `User` class.

## Commands.

Userena currently comes with two commands. `cleanexpired` for cleaning out the expired users and `check_permissions` for checking the correct permissions needed by userena.

### Clean expired

Search for users that still haven't verified their e-mail address after `USERENA_ACTIVATION_DAYS` and delete them. Run by

```
./manage.py clean_expired
```

### Check permissions

This command shouldn't be run as a cronjob. This is only for emergency situations when some permissions are not correctly set for users. For example when userena get's implemented in an already existing project. Run by

```
./manage.py check_permissions
```

## F.A.Q

### I get a "Permission matching query does not exist" exception

Sometimes Django decides not to install the default permissions for a model and thus the `change_profile` permission goes missing. To fix this, run the `check_permissions` in *Commands*.. This checks all permissions and adds those that are missing.

### I get a "Site matching query does not exist." exception

This means that your settings.SITE\_ID value is incorrect. See the instructions on SITE\_ID in the [Installation section](<http://docs.django-userena.org/en/latest/installation.html>).



## <ProfileModel> is already registered exception

Userena already registered your profile model for you. If you want to customize the profile model, you can do so by registering your profile as follows:

```
# Unregister userena's
admin.site.unregister(YOUR_PROFILE_MODEL)

# Register your own admin class and attach it to the model
admin.site.register(YOUR_PROFILE_MODEL, YOUR_PROFILE_ADMIN)
```

## Can I still add users manually?

Yes, but Userena requires there to be a *UserenaSignup* object for every registered user. If it's not there, you could receive the following error:

```
Exception Type: DoesNotExist at /accounts/mynewuser/email/
```

So, whenever you are manually creating a user (outside of Userena), don't forget to also create a *UserenaSignup* object.

## How can I have multiple profiles per user?

One way to do this is by overriding the *save* method on *SignupForm* with your own form, extending userena's form and supply this form with to the signup view. For example:

```
def save(self):
    """ My extra profile """
    # Let userena do it's thing
    user = super(SignupForm, self).save()

    # You do all the logic needed for your own extra profile
    custom_profile = ExtraProfile()
    custom_profile.extra_field = self.cleaned_data['field']
    custom_profile.save()

    # Always return the new user
    return user
```

Important to note here is that you should always return the newly created *User* object. This is something that userena expects. Userena will take care of creating the user and the "standard" profile.

Don't forget to supply your own form to the signup view by overriding the URL in your *urls.py*:

```
(r'^accounts/signup/$',
 'userena.views.signup',
 {'signup_form': SignupExtraProfileForm}),
```

## How do I add extra fields to forms?

This is done by overriding the default templates. A demo tells more than a thousand words. So here's how you add the first and last name to the signup form. First you override the signup form and add the fields.

```

from django import forms
from django.utils.translation import ugettext_lazy as _

from userena.forms import SignupForm

class SignupFormExtra(SignupForm):
    """
    A form to demonstrate how to add extra fields to the signup form, in this
    case adding the first and last name.

    """
    first_name = forms.CharField(label=_(u'First name'),
                                 max_length=30,
                                 required=False)

    last_name = forms.CharField(label=_(u'Last name'),
                                 max_length=30,
                                 required=False)

    def __init__(self, *args, **kw):
        """
        A bit of hackery to get the first name and last name at the top of the
        form instead at the end.

        """
        super(SignupFormExtra, self).__init__(*args, **kw)
        # Put the first and last name at the top
        new_order = self.fields.keyOrder[:-2]
        new_order.insert(0, 'first_name')
        new_order.insert(1, 'last_name')
        self.fields.keyOrder = new_order

    def save(self):
        """
        Override the save method to save the first and last name to the user
        field.

        """
        # First save the parent form and get the user.
        new_user = super(SignupFormExtra, self).save()

        # Get the profile, the `save` method above creates a profile for each
        # user because it calls the manager method `create_user`.
        # See: https://github.com/bread-and-pepper/django-userena/blob/master/userena/
        user_profile = new_user.get_profile()

        user_profile.first_name = self.cleaned_data['first_name']
        user_profile.last_name = self.cleaned_data['last_name']
        user_profile.save()

        # Userena expects to get the new user from this form, so return the new
        # user.
        return new_user

```

Finally, to use this form instead of our own, override the default URI by placing a new URI above it.

```
(r'^accounts/signup/$',  
'userena.views.signup',  
{'signup_form': SignupFormExtra}),
```

That's all there is to it!

## API Reference

### Backends

Return to *API Reference*.

### Decorators

Return to *API Reference*.

#### **secure\_required**

`userena.decorators.secure_required` (*view\_func*)

Decorator to switch an url from http to https.

If a view is accessed through http and this decorator is applied to that view, than it will return a permanent redirect to the secure (https) version of the same view.

The decorator also must check that `USERENA_USE_HTTPS` is enabled. If disabled, it should not redirect to https because the project doesn't support it.

### Forms

Return to *API Reference*.

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#### **SignupFormOnlyEmail**

#### **SignupFormTos**

#### **AuthenticationForm**

#### **ChangeEmailForm**

#### **EditProfileForm**

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## Contrib: uMessages

### uMessages

Userena's `umesagges` supplies you with iPhone like messaging system for your users.

#### Installation

You install it by adding `userena.contrib.umesagges` to your `INSTALLED_APPS` setting. You also need to add it to your `urlconf`. For example:

```
(r'^messages/', include('userena.contrib.umesagges.urls')),
```

A `syncdb` later and you have a great messaging system for in your application.

#### API Reference

##### Managers

##### MessageManager

**class** `userena.contrib.umesagges.managers.MessageManager`  
Manager for the `Message` model.

**get\_conversation\_between** (*um\_from\_user, um\_to\_user*)  
Returns a conversation between two users

**send\_message** (*sender, um\_to\_user\_list, body*)  
Send a message from a user, to a user.

##### Parameters

- **sender** – The `User` which sends the message.
- **um\_to\_user\_list** – A list which elements are `User` to whom the message is for.
- **message** – String containing the message.

##### Views

##### MessageListView

##### MessageDetailListView

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## CHAPTER 6

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