
Django User Sessions Documentation

Release 1.3.0

Bouke Haarsma

January 05, 2016

1	Installation	3
1.1	GeoIP	3
2	Usage	5
2.1	Current session	5
2.2	All sessions	5
2.3	Generic views	5
2.4	Admin views	6
3	Reference	7
3.1	Middleware	7
3.2	Models	7
3.3	Session Backends	7
3.4	Template Tags	7
3.5	Views	7
3.6	Unit tests	8
4	Release Notes	9
4.1	1.1.1	9
4.2	1.1.0	9
4.3	1.0.0	9
4.4	1.0.0-beta1	9
4.5	0.1.4	9
4.6	0.1.3	10
4.7	0.1.2	10
4.8	0.1.1	10
4.9	0.1.0	10
5	Indices and tables	11
	Python Module Index	13

Django includes excellent built-in sessions, however all the data is hidden away into base64 encoded data. This makes it very difficult to run a query on all active sessions for a particular user. *django-user-sessions* fixes this and makes session objects a first class citizen like other ORM objects.

Contents:

Installation

1. `pip install django-user-sessions`
2. In `INSTALLED_APPS` replace `'django.contrib.sessions'` with `'user_sessions'`.
3. In `MIDDLEWARE_CLASSES` replace `'django.contrib.sessions.middleware.SessionMiddleware'` with `'user_sessions.middleware.SessionMiddleware'`.
4. Add `SESSION_ENGINE = 'user_sessions.backends.db'`.
5. Add `url(r'', include('user_sessions.urls', 'user_sessions'))`, to your `urls.py`.
6. Run `python manage.py syncdb` (or `migrate`) and start hacking!

1.1 GeoIP

You need to setup GeoIP for the location detection to work. See the Django documentation on [installing GeoIP](#).

Usage

2.1 Current session

The current session is available on the request, just like the normal session middleware makes the session available:

```
def my_view(request):  
    request.session
```

2.2 All sessions

To get the list of a user's sessions:

```
sessions = user.session_set.filter(expire_date__gt=now())
```

You could logout the user everywhere:

```
user.session_set.all().delete()
```

2.3 Generic views

There are two views included with this application, *SessionListView* and *SessionDeleteView*. Using this views you have a simple, but effective, user session management that even looks great out of the box:

Active Sessions

Location	Device	Last Activity	End Session
Netherlands (xx.xx.xx.xx)	Safari on iPhone	5 minutes ago	End Session
Zwolle, Netherlands (xx.xx.xx.xx)	Safari on Mac OS X	11 minutes ago (this session)	End Session

2.3.1 Template tags

Two template tags are included `device()` and `location()`. These can be used for respectively humanizing the user agent string and showing an approximate location of the IP address:

```
{% load user_sessions %}
{{ session.user_agent|device }} -> Safari on OS X
{{ session.ip|location }}      -> Zwolle, The Netherlands
```

2.4 Admin views

The user's IP address and user agent are also stored on the session. This allows to show a list of active sessions to the user in the admin:

Select session to change

[Add session](#) [+](#)

Search

Action:

Go

 0 of 2 selected

<input type="checkbox"/>	Ip address	User	Is valid	Location	Device
<input type="checkbox"/>	xx.xx.xx.xx	bouke	✓	Zwolle, Netherlands	Safari on Mac OS X
<input type="checkbox"/>	xx.xx.xx.xx	bouke	✓	Netherlands	Safari on iPhone

2 sessions

Filter

By Is Valid

[All](#)

Active

Expired

By Owner

[All](#)

Self

3.1 Middleware

class `user_sessions.middleware.SessionMiddleware`
Middleware that provides `ip` and `user_agent` to the session store.

3.2 Models

3.3 Session Backends

3.4 Template Tags

`user_sessions.templatetags.user_sessions.device` (*value*)
Transform a User Agent into a human readable text.

Example output:

- Safari on iPhone
- Chrome on Windows 8.1
- Safari on OS X

`user_sessions.templatetags.user_sessions.location` (*value*)
Transform an IP address into an approximate location.

Example output:

- Zwolle, The Netherlands
- <i>unknown</i>

3.5 Views

class `user_sessions.views.SessionListView` (***kwargs*)
View for listing a user's own sessions.

This view shows list of a user's currently active sessions. You can override the template by providing your own template at `user_sessions/session_list.html`.

```
class user_sessions.views.SessionDeleteView(**kwargs)
```

View for deleting a user's own session.

This view allows a user to delete an active session. For example log out a session from a computer at the local library or a friend's place.

3.6 Unit tests

Release Notes

4.1 1.1.1

- Added Django 1.8 support

4.2 1.1.0

- Fixed #14 – Truncate long user_agents
- Fixed #23 – Cannot use admin view search
- Added Django 1.7 migrations

4.3 1.0.0

No changes from 1.0.0-beta1.

4.4 1.0.0-beta1

- #8 – Consistent URL patterns
- #11 – Support Django 1.6's ATOMIC_REQUESTS
- German translation added

4.5 0.1.4

- Python 3.4 support
- Django 1.7 (beta) support
- Italian translation added
- Chinese translation added
- Arabic translation updated

4.6 0.1.3

- Documentation
- Hebrew translation added
- Arabic translation added
- Fixed #3 – Reset user_id on logout
- Fixed #4 – Add explicit license text

4.7 0.1.2

- Ship with default templates
- Added Dutch translation

4.8 0.1.1

- Added South migrations

4.9 0.1.0

- Initial release

Indices and tables

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

u

`user_sessions.templatetags.user_sessions,`
[7](#)

D

`device()` (in module `user_sessions.templatetags.user_sessions`),
[7](#)

L

`location()` (in module `user_sessions.templatetags.user_sessions`),
[7](#)

S

`SessionDeleteView` (class in `user_sessions.views`), [7](#)

`SessionListView` (class in `user_sessions.views`), [7](#)

`SessionMiddleware` (class in `user_sessions.middleware`),
[7](#)

U

`user_sessions.templatetags.user_sessions` (module), [7](#)