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# Django User Sessions Documentation

*Release 1.7.1*

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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:



1. `pip install django-user-sessions`
2. In `INSTALLED_APPS` replace `'django.contrib.sessions'` with `'user_sessions'`.
3. In `MIDDLEWARE` or `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. Make sure `LOGOUT_REDIRECT_URL` is set to some page to redirect users after logging out.
7. Run `python manage.py syncdb` (or `migrate`) and browse to `/account/sessions/`.

## 1.1 System check framework

Django warns you about common configuration errors. When replacing the session middleware with the one provided by this library, it'll start warning about `admin.E410`. You can silence this warning by adding the following line in your settings file:

```
SILENCED_SYSTEM_CHECKS = ['admin.E410']
```

## 1.2 GeoIP

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

## 1.3 IP when behind a proxy

If you're running Django behind a proxy like nginx, you will have to set the `REMOTE_ADDR` META header manually using a middleware, to stop it from always returning the ip of the proxy (e.g. 127.0.0.1 in many cases).

An example middleware to fix this issue is [django-xforwardedfor-middleware](#) which simply does this for each request:

```
request.META['REMOTE_ADDR'] = request.META['HTTP_X_FORWARDED_FOR'].split(',')  
[0].strip()
```

Your particular configuration may vary, *X-Forwarded-For* must be set by a proxy that you have control over, otherwise it might be spoofed by the client.



## 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	<a href="#">End Session</a>
Zwolle, Netherlands (xx.xx.xx.xx)	Safari on Mac OS X	11 minutes ago (this session)	<a href="#">End Session</a>

### 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](#) **+**

Action:   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` (*get\_response=None*)  
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 human readable text.

Example output:

- Safari on iPhone
- Chrome on Windows 8.1
- Safari on OS X
- Firefox
- Linux
- None

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

Example output:

- Zwolle, The Netherlands
- The Netherlands
- None

## 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

### 4.1 1.7.0

- new: Support for Django 2.2+.
- Dropped Django <2.2 support.

### 4.2 1.6.0

- New: Support for Django 2.0.
- Dropped Django <1.11 support.
- Command for migrating existing sessions to the new session store (#33).

### 4.3 1.5.3

- Fixed issue with incorrect location being displayed.

### 4.4 1.5.2

- Also work with GeoIP2 country database.

### 4.5 1.5.1

- Updated documentation for GeoIP2 library.
- Correctly detect macOS version on Firefox.

### 4.6 1.5.0

- Added Django 1.11 support.
- Added support for GeoIP2 library.
- Added detection of Windows 10 and macOS from user-agent.
- Fixed #73 – Error when deleting individual session from list view.
- Fixed #74 – user agent not being shown in list view.
- Resolved Django’s deprecation warnings (preliminary Django 2.0 support).
- Make templatetags return None instead of ‘unknown’, provide your own fallback value with *default\_if\_none*.
- Allow translation of fallback values.

### 4.7 1.4.0

- Added Django Channels support.
- Fixed #62 – Provide request.user in signals.
- Ending current session will logout instead, make sure LOGOUT\_REDIRECT\_URL is set.

### 4.8 1.3.1

- Added Django 1.10 support.

### 4.9 1.3.0

- Added Django 1.9 support.
- Dropped support for Django 1.7 and below.

### 4.10 1.2.0

- New feature: delete all-but-current sessions.
- Added clearsessions command.

### 4.11 1.1.1

- Added Django 1.8 support.

## 4.12 1.1.0

- Fixed #14 – Truncate long user agents strings.
- Fixed #23 – Cannot use admin view search.
- Added Django 1.7 migrations.

## 4.13 1.0.0

- #8 – Consistent URL patterns.
- #11 – Support Django 1.6's *ATOMIC\_REQUESTS*.
- German translation added.

## 4.14 0.1.4

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

## 4.15 0.1.3

- Documentation.
- Hebrew translation added.
- Arabic translation added.
- Fixed #3 – Reset *user\_id* on logout.
- Fixed #4 – Add explicit license text.

## 4.16 0.1.2

- Ship with default templates.
- Added Dutch translation.

## 4.17 0.1.1

- Added South migrations.

## 4.18 0.1.0

- Initial release.



## CHAPTER 5

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### Indices and tables

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