Django User Sessions Documentation

Release 1.5.0

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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:

CHAPTER 1

Installation

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/`.

GeoIP

You need to setup GeoIP for the location detection to work. See the Django documentation on installing GeoIP.

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.

CHAPTER 2

Usage

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
```

All sessions

To get the list of a user's sessions:

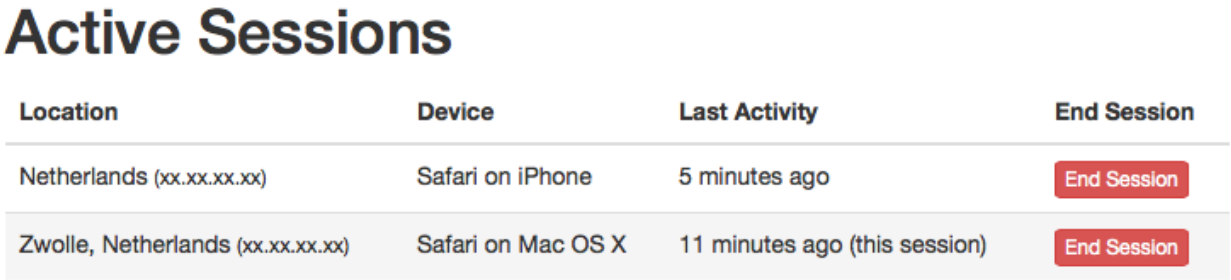
```
sessions = user.session_set.filter(expire_date__gt=now())
```

You could logout the user everywhere:

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

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:



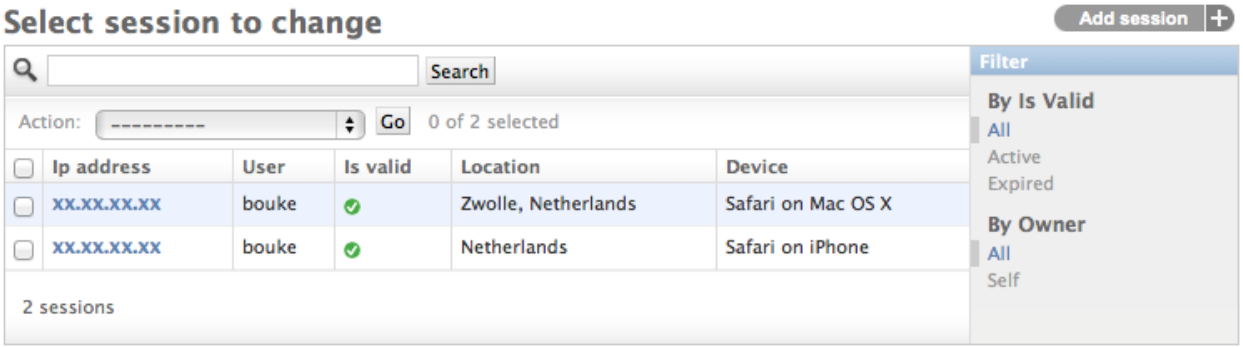
Template tags

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
```

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:



CHAPTER 3

Reference

Middleware

class `user_sessions.middleware.`**`SessionMiddleware`**(*get_response=None*)

Middleware that provides ip and user_agent to the session store.

Models

Session Backends

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

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.

Unit tests

CHAPTER 4

Release Notes

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

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

1.3.1

- Added Django 1.10 support

1.3.0

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

1.2.0

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

1.1.1

- Added Django 1.8 support

1.1.0

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

1.0.0

No changes from 1.0.0-beta1.

1.0.0-beta1

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

0.1.4

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

0.1.3

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

0.1.2

- Ship with default templates
- Added Dutch translation

0.1.1

- Added South migrations

0.1.0

- Initial release

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Indices and tables

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