
django-layar Documentation

Release 0.2.0

James Turk

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django-layar

Django generic view for making [Layar](#) endpoints.

Provides abstract class that responds to Layar API requests in the appropriate format. By implementing two small functions it is possible to add a layer to the Layar augmented reality application for Android and iPhone.

django-layar is a project of Sunlight Labs (c) 2009. Written by James Turk <jturk@sunlightfoundation.com>

Source: <http://github.com/sunlightlabs/django-layar/>

Documentation: <http://packages.python.org/django-layar/README.html>

1.1 Requirements

python >= 2.4

django >= 1.0

1.2 Usage

1.2.1 Layar Developer Key

If you haven't already, it is necessary to [sign up with Layar](#) to obtain an API key.

Set `LAYAR_DEVELOPER_KEY='<YOUR_KEY>'` in `settings.py`

1.2.2 Creating a `LayarView` subclass

django-layar provides a class-based generic view at `layar.LayarView`. In order to provide your own layers it is necessary to inherit from this view and implement two simple functions (per layer).

The required functions are `get_LAYERNAME_queryset()` and `poi_from_LAYERNAME_item()`.

It is possible to serve as many layers as you desire from a single Layar endpoint, just make sure that the name of your functions matches the name you provide when registering your layers with Layar.com

`get_LAYERNAME_queryset()` is passed a number of arguments (see `layar.LayarView` for detail) and should return a queryset of the objects for `LayarView` to paginate and return.

`poi_from_LAYERNAME_item()` is called on each item being returned, and should convert items into `layar.POI` objects.

It is usually best to then create an instance of your derived class in your application's `views.py`

Example:

```
# views.py

from django.contrib.gis.geos import Point
from myapp.models import BusStop
from layar import LayarView, POI

class BusStopLayar(LayarView):

    # make sure to accept **kwargs
    def get_busstop_queryset(self, latitude, longitude, radius, **kwargs):
        return BusStop.objects.filter(location__distance_lt=(Point(longitude, latitude), radius))

    def poi_from_recoverygov_item(self, item):
        return POI(id=item.id, lat=item.location.y, lon=item.location.x, title=item.name,
                  line2=item.route_name, line3='Distance: %distance%')

# create an instance of BusStopLayar
busstop_layar = BusStopLayar()
```

In `urls.py` it is then necessary to map a URL directly to `busstop_layar`:

```
# urls.py

from django.conf.urls.defaults import *

urlpatterns = patterns('',
    url(r'^layar_endpoint/$', 'myapp.views.busstop_layar'),
)
```

Module Documentation

Changelog

3.1 0.2.0

- add custom radius handling
- made accuracy and radius optional
- new parameters: alt, search2/3, slider2/3, checkboxes

3.2 0.1.1 - March 4 2009

- fix packaging issues
- lat/lng conversion on Decimal objects
- warn when POI.actions is a dict

3.3 0.1.0 - October 22 2009

- initial working release

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Indices and tables

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- `modindex`
- `search`