django-location-field Documentation Release 2.0.0

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The **django-location-field** app provides model and form fields, and widgets that allows your users to easily pick locations and store in the database.

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CHAPTER 1

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1.1 Getting started

1.1.1 Installation

Using pip:

```
pip install django-location-field
```

1.1.2 Configuration

Add location_field.apps.DefaultConfig to INSTALLED_APPS.

Example:

```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.sites',
    'location_field.apps.DefaultConfig',
]
```

Choose a map provider

At this moment we support three map providers:

- Google
- Mapbox

• OpenStreetMap

Choose a search provider

At this moment we support three search providers:

- Google
- Yandex
- Nominatim

1.1.3 Rendering form with a map

NOTE: If you will be using the map widget only inside Django admin, you can skip this section as it should work out-of-the-box.

The way to render a form containing a map is the same as any other forms containing their own javascript and stylesheets, except that you need to ensure your page loads jQuery.

You can find a running example in the example app (example/directory).

1.2 Settings

1.2.1 Default settings

These are the default settings:

```
LOCATION_FIELD_PATH = settings.STATIC_URL + 'location_field'

LOCATION_FIELD = {
    'map.provider': 'google',
    'map.zoom': 13,

    'search.provider': 'google',
    'search.suffix': '',

# Google
    'provider.google.api': '//maps.google.com/maps/api/js?sensor=false',
    'provider.google.api_key': '',
    'provider.google.api_libraries': '',
    'provider.google.map.type': 'ROADMAP',

# Mapbox
    'provider.mapbox.access_token': '',
    'provider.mapbox.max_zoom': 18,
```

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```
'provider.mapbox.id': 'mapbox.streets',

# OpenStreetMap
'provider.openstreetmap.max_zoom': 18,

# misc
'resources.root_path': LOCATION_FIELD_PATH,
'resources.media': {
    'js': (
        LOCATION_FIELD_PATH + '/js/jquery.livequery.js',
        LOCATION_FIELD_PATH + '/js/form.js',
        ),
    },
}
```

1.2.2 Override default settings

To override the default settings, you can define only what you want to override, for example:

```
LOCATION_FIELD = {
    'map.provider': 'openstreetmap',
    'search.provider': 'nominatim',
}
```

This will keep all other settings the same.

1.3 Form fields

There are two type of form fields, the PlainLocationField *for non-spatial databases* and the LocationField *for spatial databases* like PostGIS and SpatiaLite.

The attributes that can be passed to both form fields are:

Attribute	Description		
based_field	sed_fields A list of fields that will be used to populate the location field		
zoom	The default zoom level for the map		
suffix	A suffix that will be added to the search string, like a city name. Useful when you want to restrict the		
	search to determined areas.		

1.3.1 For non-spatial databases

For non-spatial databases you may want to use the PlainLocationField, which stores the latitude and longitude values as plain text.

Example:

```
from django import forms
from location_field.forms.plain import PlainLocationField

class Address(forms.Form):
    city = forms.CharField()
```

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1.3.2 For spatial databases

For spatial databases like PostGIS and SpatiaLite you may want to use the LocationField, which stores the latitude and longitude values as a Point object.

Example:

1.4 Changelog

1.4.1 Versions

2.0.0

- Added support to multiple map providers (Google, Mapbox, OpenStreetMap)
- Refactored the Javascript code to use Leaflet.js

1.4.2 Upgrading

From 1.x to 2.x

Backward incompatible changes

- Form fields no longer accepts the default parameter. If you are using them directly, without the model field, you have to replace the default parameter by the well known standard parameter initial.
- The based_fields parameter of model fields now only expects field names as strings and not field instances.

CHAPTER 2

Indices and tables

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