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# **Django flexible filter conditions Documentation**

***Release 0.5.0***

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## DJANGO FLEXIBLE FILTER CONDITIONS

Flexible query filter conditions, that can be defined from django-admin and used for segmentation of data (i.e. Profiles).

### 1.1 Documentation

The full documentation is at <https://django-flexible-filter-conditions.readthedocs.io>.

### 1.2 Quickstart

Install Django flexible filter conditions:

```
pip install django-flexible-filter-conditions
```

Add it to your *INSTALLED\_APPS*:

```
INSTALLED_APPS = (  
    ...  
    'flexible_filter_conditions.apps.FlexibleFilterConditionsConfig',  
    ...  
)
```

Add Django flexible filter conditions's URL patterns:

```
FLEXIBLE_FILTER_CONDITIONS_FIELD_MAP = {  
    'User': ('aklub.models', 'User'),  
    'Profile': ('aklub.models', 'Profile'),  
    'Payment': ('aklub.models', 'Payment'),  
    'User.last_payment': ('aklub.models', 'Payment'),  
    'User.userchannels': ('aklub.models', 'DonorPaymentChannel'),  
}
```

## 1.3 Features

- TODO

## 1.4 Running Tests

Does the code actually work?

```
source <YOURVIRTUALENV>/bin/activate
(myenv) $ pip install tox
(myenv) $ tox
```

## 1.5 Credits

Tools used in rendering this package:

- [Cookiecutter](#)
- [cookiecutter-djangopackage](#)

## INSTALLATION

At the command line:

```
$ easy_install django-flexible-filter-conditions
```

Or, if you have virtualenvwrapper installed:

```
$ mkvirtualenv django-flexible-filter-conditions  
$ pip install django-flexible-filter-conditions
```



To use Django flexible filter conditions in a project, add it to your *INSTALLED\_APPS*:

```
INSTALLED_APPS = (  
    ...  
    'flexible_filter_conditions.apps.FlexibleFilterConditionsConfig',  
    ...  
)
```

Configure fields that you want to filter on in your settings:

```
FLEXIBLE_FILTER_CONDITIONS_FIELD_MAP = {  
    'User': ('aklub.models', 'User'),  
    'Profile': ('aklub.models', 'Profile'),  
    'Payment': ('aklub.models', 'Payment'),  
    'User.last_payment': ('aklub.models', 'Payment'),  
    'User.userchannels': ('aklub.models', 'DonorPaymentChannel'),  
}
```



## CONTRIBUTING

Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given. You can contribute in many ways:

### 4.1 Types of Contributions

#### 4.1.1 Report Bugs

Report bugs at <https://github.com/PetrDlouhy/django-flexible-filter-conditions/issues>.

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

#### 4.1.2 Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with “bug” is open to whoever wants to implement it.

#### 4.1.3 Implement Features

Look through the GitHub issues for features. Anything tagged with “feature” is open to whoever wants to implement it.

#### 4.1.4 Write Documentation

Django flexible filter conditions could always use more documentation, whether as part of the official Django flexible filter conditions docs, in docstrings, or even on the web in blog posts, articles, and such.

### 4.1.5 Submit Feedback

The best way to send feedback is to file an issue at <https://github.com/PetrDlouhy/django-flexible-filter-conditions/issues>.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome :)

## 4.2 Get Started!

Ready to contribute? Here's how to set up *django-flexible-filter-conditions* for local development.

1. Fork the *django-flexible-filter-conditions* repo on GitHub.
2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/django-flexible-filter-conditions.git
```

3. Install your local copy into a virtualenv. Assuming you have virtualenvwrapper installed, this is how you set up your fork for local development:

```
$ mkvirtualenv django-flexible-filter-conditions
$ cd django-flexible-filter-conditions/
$ python setup.py develop
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

5. When you're done making changes, check that your changes pass flake8 and the tests, including testing other Python versions with tox:

```
$ flake8 flexible_filter_conditions tests
$ python setup.py test
$ tox
```

To get flake8 and tox, just pip install them into your virtualenv.

6. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

7. Submit a pull request through the GitHub website.

## 4.3 Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

1. The pull request should include tests.
2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring, and add the feature to the list in README.rst.
3. The pull request should work for Python 2.6, 2.7, and 3.3, and for PyPy. Check [https://travis-ci.org/PetrDlouhy/django-flexible-filter-conditions/pull\\_requests](https://travis-ci.org/PetrDlouhy/django-flexible-filter-conditions/pull_requests) and make sure that the tests pass for all supported Python versions.

## 4.4 Tips

To run a subset of tests:

```
$ python -m unittest tests.test_flexible_filter_conditions
```



CREDITS

## 5.1 Development Lead

- Petr Dlouhý <[petr.dlouhy@email.cz](mailto:petr.dlouhy@email.cz)>

## 5.2 Contributors

None yet. Why not be the first?



## HISTORY

### 6.1 0.5.0 (2020-02-19)

- refactor: remove `filter_by_condition()`, make it `NamedCondition` class method `filter_by_query()`
- fix contains operator
- add more testing

### 6.2 0.4.0 (2020-02-18)

- added support for new operators: `in`, `list`, `date`
- mutlipe conditions in one named comdition can be added to support subsequent filters
- add xor operator
- add negate to conditition (and remove `nor`)

### 6.3 0.3.0 (2020-01-23)

- fixes and improvements for better user orientation

### 6.4 0.2.0 (2020-01-21)

- Added blank paremeter value
- Added `isnull` filter

## 6.5 0.1.0 (2020-01-14)

- First release on PyPI.