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# **thecut-emailfield Documentation**

***Release 1.0.2***

**The Cut Creative**

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## thecut-emailfield

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A Django email field which validates by checking for an MX record on the domain.

### 1.1 Documentation

The full documentation is at <https://thecut-emailfield.readthedocs.org>.

### 1.2 Quickstart

Install `thecut-emailfield` using the installation instructions found in the project documentation.

An example `models.py`:

```
# -*- coding: utf-8 -*-
from __future__ import absolute_import, unicode_literals
from django.db import models
from thecut.emailfield.models import EmailField

class EmailModel(models.Model):

    email = EmailField()
```

An example `forms.py`:

```
# -*- coding: utf-8 -*-
from __future__ import absolute_import, unicode_literals
from django import forms
from thecut.emailfield.forms import EmailField

class EmailForm(forms.Form):

    email = EmailField()
```

### 1.3 Credits

See `AUTHORS.rst`.





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## Installation instructions

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1. Install via pip / pypi:

```
$ pip install thecut-emailfield
```

2. Add to your project's INSTALLED\_APPS setting:

```
INSTALLED_APPS = [  
    # ...  
    'thecut.emailfield'  
    # ...  
]
```

3. Sync your project's migrations:

```
$ python manage.py migrate emailfield
```



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## Usage

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### 3.1 Validating a model field

You can use `thecut-emailfield` to validate email addresses on a model by using *EmailField*.

An example `models.py`:

```
# -*- coding: utf-8 -*-
from __future__ import absolute_import, unicode_literals
from django.db import models
from thecut.emailfield.models import EmailField

class EmailModel(models.Model):

    email = EmailField()
```

### 3.2 Validating a form field

You can use `thecut-emailfield` to validate email addresses on a form by using *EmailField*.

An example `forms.py`:

```
# -*- coding: utf-8 -*-
from __future__ import absolute_import, unicode_literals
from django import forms
from thecut.emailfield.forms import EmailField

class EmailForm(forms.Form):

    email = EmailField()
```



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## API Reference

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**class** thecut.emailfield.models.**EmailField**(\*args, \*\*kwargs)

An email address model field that performs MX record validation.

**class** thecut.emailfield.forms.**EmailField**(*max\_length=None*, *min\_length=None*, \*args, \*\*kwargs)

An email address model field that performs MX record validation.



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## Testing

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### 5.1 Running unit tests

#### 5.1.1 Using your system's Python / Django

You can perform basic testing against your system's Python / Django.

1. Install the test suite requirements:

```
$ pip install -r requirements-test.txt
```

2. Ensure a version of Django is installed:

```
$ pip install Django
```

3. Run the test runner:

```
$ python runtests.py
```

#### 5.1.2 Using a virtualenv

You can use `virtualenv` to test without polluting your system's Python environment.

1. Install `virtualenv`:

```
$ pip install virtualenv
```

2. Create and activate a `virtualenv`:

```
$ cd thecut-emailfield
$ virtualenv .
$ source bin/activate
(thecut-emailfield) $
```

3. Follow 'Using your system's Python / Django' above.

#### 5.1.3 Using `tox`

You can use `tox` to automatically test the application on a number of different Python and Django versions.

1. Install `tox`:

```
$ pip install -r requirements-test.txt
```

## 2. Run tox:

```
(thecut-emailfield) $ tox --recreate
```

Tox assumes that a number of different Python versions are available on your system. If you do not have all required versions of Python installed on your system, running the tests will fail. See `tox.ini` for a list of Python versions that are used during testing.

## 5.1.4 Test coverage

The included `tox` configuration automatically detects test code coverage with `coverage`:

```
$ coverage report
```

## 5.2 Available tests

### 5.2.1 Forms

**class** `thecut.emailfield.tests.test_forms.TestEmailFormField` (*methodName='runTest'*)  
Tests for the `thecut.emailfield.models.EmailField` model field.

**test\_accepts\_domain\_with\_mx\_record** (*\*args, \*\*kwargs*)  
Accept email address for a domain with an MX record.

**test\_rejects\_domain\_without\_mx\_record** (*\*args, \*\*kwargs*)  
Reject email address for a domain without an MX record.

### 5.2.2 Models

**class** `thecut.emailfield.tests.test_models.TestEmailModelField` (*methodName='runTest'*)  
Tests for the `thecut.emailfield.models.EmailField` model field.

**test\_accepts\_domain\_with\_mx\_record** (*\*args, \*\*kwargs*)  
Accept email address for a domain with an MX record.

**test\_rejects\_domain\_without\_mx\_record** (*\*args, \*\*kwargs*)  
Reject email address for a domain without an MX record.



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## History

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### 6.1 1.0.2 (2016-08-16)

- Documentation bug fixes.

### 6.2 1.0.1 (2016-08-16)

- Documentation bug fixes.

### 6.3 1.0 (2016-08-16)

- Testing improvements
- Documentation improvements.

### 6.4 0.4 (2016-06-28)

- Redesigned testing environment.
- Added basic documentation.

### 6.5 0.3 (2016-06-28)

- Stop automated testing for Django 1.5 and Django 1.6.
- Improved code coverage exception list.
- Improved code coverage reporting with Travis.
- Removed pre-Django 1.5 email validation code.

## 6.6 0.2.4 (2016-03-11)

- Configured code coverage exceptions.
- Unicode packaging fix (`version.py`).

## 6.7 0.2.3 (2015-11-23)

- Configured continuous integration via Travis.
- Configured code coverage tracking via codecov.

## 6.8 0.2.2 (2015-11-23)

- Added unit tests.
- Added basic unit test environment (with `tox`).
- Accounted for `dnspython` incompatibility with Python 3.

## 6.9 0.2.1 (2015-01-13)

- Added `LICENSE`, `README`.etc

## 6.10 0.2 (2014-09-18)

- Added Python 3 packing support.
- Added extra validation of email addresses in Django 1.4

## 6.11 0.1 (2014-06-17)

- First release.

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### Credits

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- Matt Austin <matt.austin@thecut.net.au>
- Kye Russell <kye.russell@thecut.net.au>



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