Important

# Model Utilities E MIXINS



#pythonworld

django-model-utils package provides some important model utilities & mixins that is very helpful while working with the django models



1. Install the package

We need to install djangomodel-utils package by just hitting this command in terminal

pip install django-model-utils

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### 1. StatusField

A simple convenience for giving a model a set of "states." StatusField is a CharField subclass that expects to find a class attribute called STATUS on its model

```
from model_utils.fields import StatusField
from model_utils import Choices

class Article(models.Model):

STATUS = Choices('draft', 'published')

status = StatusField()
```

### 2. MonitorField

A DateTimeField subclass that monitors another field on the model, and updates itself to the current date-time whenever the monitored field changes:

```
from model_utils.fields import MonitorField, StatusField

class Article(models.Model):
    STATUS = Choices('draft', 'published')

status = StatusField()
    status_changed = MonitorField(monitor='status')
```

If a list is passed to the when parameter, the field will only update when it matches one of the specified values:

```
from model_utils.fields import MonitorField, StatusField

class Article(models.Model):
    STATUS = Choices('draft', 'published')

status = StatusField()
    published_at = MonitorField(monitor='status', when=['published'])
```

## 3. SplitField

A TextField subclass that automatically pulls an excerpt out of its content (based on a "split here" marker or a default number of initial paragraphs) and stores both its content and excerpt values in the database.

```
from django.db import models
from model_utils.fields import SplitField

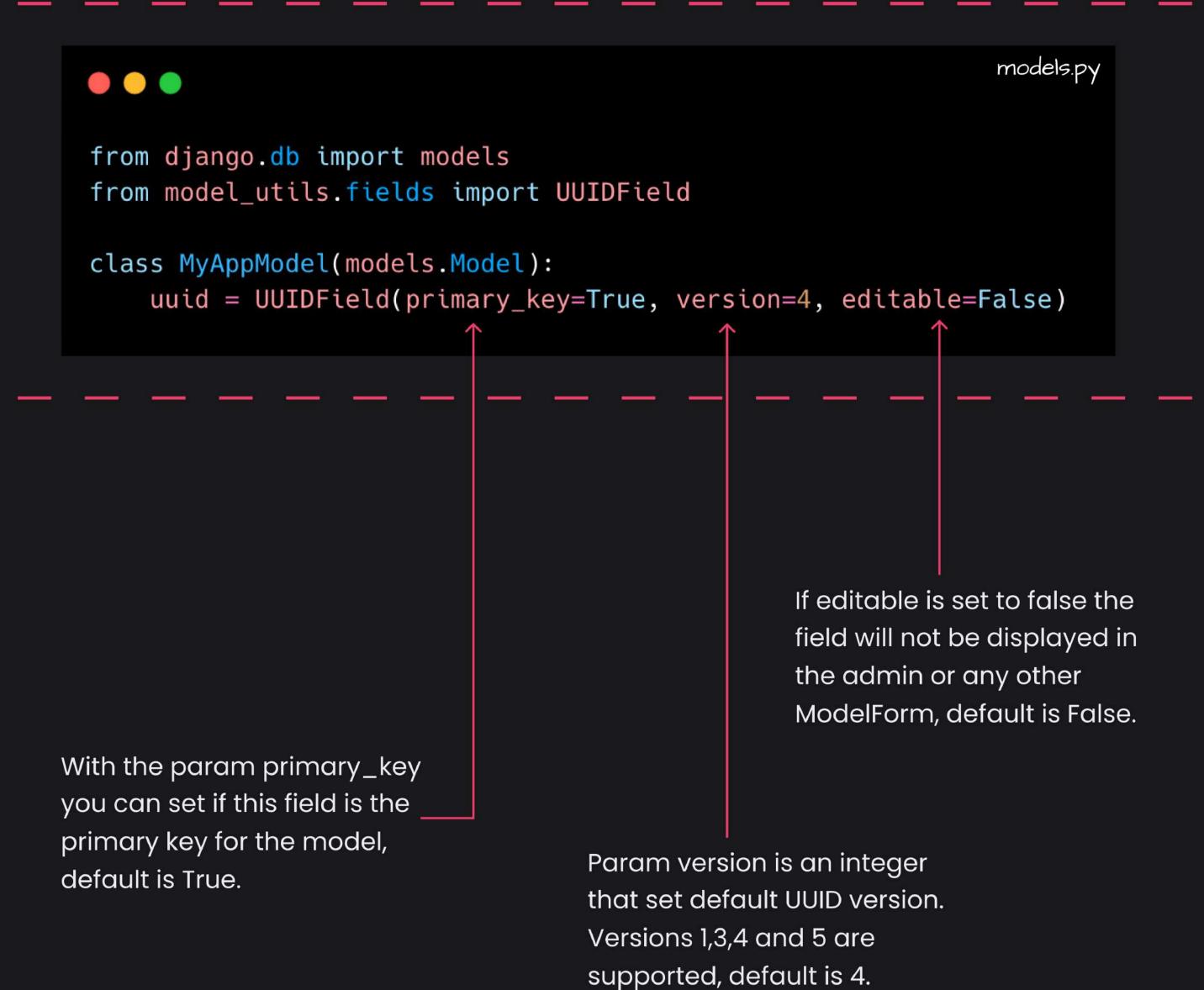
class Article(models.Model):
   title = models.CharField(max_length=100)
   body = SplitField()
```

### Accessing a SplitField on a model

```
>>> a = Article.objects.all()[0]
>>> a.body.content
u'some text\n\n<!-- split -->\n\nmore text'
>>> a.body.excerpt
u'some text\n'
>>> unicode(a.body)
u'some text\n\n<!-- split -->\n\nmore text'
```

### 4. UUIDField

A UUIDField subclass that provides an UUID field. You can add this field to any model definition.



### 5. UrlsafeTokenField

A CharField subclass that provides random token generating using python's secrets.token\_urlsafe as default value.

```
from django.db import models
from model_utils.fields import UrlsafeTokenField

class MyAppModel(models.Model):
    uuid = UrlsafeTokenField(editable=False, max_length=128)
```

You can provide your custom token generator using the factory argument

```
import uuid
from django.db import models
from model_utils.fields import UrlsafeTokenField

def _token_factory(max_length):
    return uuid.uuid4().hex

class MyAppModel(models.Model):
    uuid = UrlsafeTokenField(max_length=32, factory=_token_factory)
```

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