How to set the default of a JSONField to empty list in Django and django-jsonfield?

Asked 6 years, 7 months ago Modified 3 years ago Viewed 38k times



Question

What is the best way to set a JSONField to have the default value of a new list in django?



Context

There is a model where one of the fields is a list of items. In the case where there are no items set, the model should have an empty list.

Current solution

```
from django.models import Model
class MyModel(Model):
    the_list_field = JSONField(default=[])
```

Is this the best way to do it? Should it be switched to use list instead?

Thanks!

```
python
         django
                   django-models
                                   reference
```

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asked Feb 15, 2017 at 2:47



Is there any reason why you're not using Django's built-in jsonfield? - Rod Xavier Feb 15, 2017 at 2:55

@RodXavier MySQL < 5.7 and other legacy code uses them, so for consistency. – Juan Carlos Coto Feb 15, 2017 at 3:47

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According to the <u>Django documentation for JSONField</u> you should indeed use default=list because using default=[] would create a mutable object that is shared between all instances of your field and could lead to some objects not having an empty list as a default.



74

Please note that this does not only apply for django.contrib.postgres.fields.JSONField but for all other kinds of objects and functions in Python in general.



Quote from the docs:



If you give the field a default, ensure it's a callable such as list (for an empty default) or a callable that returns a list (such as a function). Incorrectly using default=[] creates a mutable default that is shared between all instances of

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edited Sep 1, 2017 at 10:37

answered Mar 15, 2017 at 9:00



5.168 74



list and dict are callable, while [] and {} are not (you can't do []()). So:



- Use JsonField(default=list) over JsonField(default=[])
- Use **JsonField(default=dict)** Over JsonField(default={})



If you want to instantiate with some data you can do the following:





```
def jsonfield_default_value(): # This is a callable
    return [0, 0] # Any serializable Python obj, e.g. `["A", "B"]` or
`{"price": 0}`
class MyModel(Model):
    the_list_field = JSONField(default=jsonfield_default_value)
```

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edited Sep 8, 2020 at 15:00

answered Nov 15, 2019 at 14:11



Nitin Nain **5.133** 1 37

51

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