

LAB 5 - IT314

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Python Tool: Pylint

Git : <https://github.com/EatEmAll/django-djedit>

0001.initial.py error snippet

```
C:\Users\student\202001407\django-djedit-master\djedit\migrations>py -m pylint 0001_initial.py
***** Module djedit.migrations.0001_initial
0001_initial.py:29:0: C0301: Line too long (126/100) (line-too-long)
0001_initial.py:34:0: C0301: Line too long (165/100) (line-too-long)
0001_initial.py:35:0: C0301: Line too long (167/100) (line-too-long)
0001_initial.py:44:0: C0301: Line too long (114/100) (line-too-long)
0001_initial.py:48:0: C0301: Line too long (124/100) (line-too-long)
0001_initial.py:57:0: C0301: Line too long (114/100) (line-too-long)
0001_initial.py:58:0: C0301: Line too long (188/100) (line-too-long)
0001_initial.py:68:0: C0301: Line too long (114/100) (line-too-long)
0001_initial.py:70:0: C0301: Line too long (126/100) (line-too-long)
0001_initial.py:71:0: C0301: Line too long (136/100) (line-too-long)
0001_initial.py:80:0: C0301: Line too long (101/100) (line-too-long)
0001_initial.py:1:0: C0114: Missing module docstring (missing-module-docstring)
0001_initial.py:1:0: C0103: Module name "0001_initial" doesn't conform to snake_case naming style (invalid-name)
0001_initial.py:5:0: E0401: Unable to import 'django.conf' (import-error)
0001_initial.py:6:0: E0401: Unable to import 'django.core.validators' (import-error)
0001_initial.py:7:0: E0401: Unable to import 'django.db' (import-error)
0001_initial.py:8:0: E0401: Unable to import 'django.db.models.deletion' (import-error)
0001_initial.py:10:0: E0401: Unable to import 'mptt.fields' (import-error)
0001_initial.py:13:0: C0115: Missing class docstring (missing-class-docstring)
0001_initial.py:13:0: R0903: Too few public methods (0/2) (too-few-public-methods)

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Your code has been rated at 0.00/10
```

0001.initial.py code snippet

```
0001_initial.py x
C:\Users\student\202001041\django-djeddit-master\djeddit\migrations> 0001_initial.py Migration
1  # -*- coding: utf-8 -*-
2  # Generated by Django 1.10.3 on 2017-05-23 22:07
3  from __future__ import unicode_literals
4
5  from django.conf import settings
6  import django.core.validators
7  from django.db import migrations, models
8  import django.db.models.deletion
9  import django.utils.timezone
10 import uuid
11
12
13 class Migration(migrations.Migration):
14
15     initial = True
16
17     dependencies = [
18         migrations.swappable_dependency(settings.AUTH_USER_MODEL),
19     ]
20
21     operations = [
22         migrations.CreateModel(
23             name='Post',
24             fields=[
25                 ('content', models.TextField(blank=True, default='')),
26                 ('created_on', models.DateTimeField(auto_now_add=True)),
27                 ('modified_on', models.DateTimeField(auto_now=True)),
28                 ('score', models.IntegerField(blank=True, default=0)),
29                 ('full', models.CharField(default='jeddit', max_length=100, editable=False, primary_key=True, serialize=False)),
30                 ('left', models.PositiveIntegerField(db_index=True, editable=False)),
31                 ('right', models.PositiveIntegerField(db_index=True, editable=False)),
32                 ('tree_id', models.PositiveIntegerField(db_index=True, editable=False)),
33                 ('level', models.PositiveIntegerField(db_index=True, editable=False)),
34                 ('created_by', models.ForeignKey(blank=True, null=True, on_delete=django.db.models.deletion.CASCADE, related_name='+', to=settings.AUTH_USER_MODEL)),
35                 ('parent', models.ForeignKey(blank=True, null=True, on_delete=django.db.models.deletion.CASCADE, related_name='children', to='jeddit.Post')),
36             ],
37         ),
38     ]
```

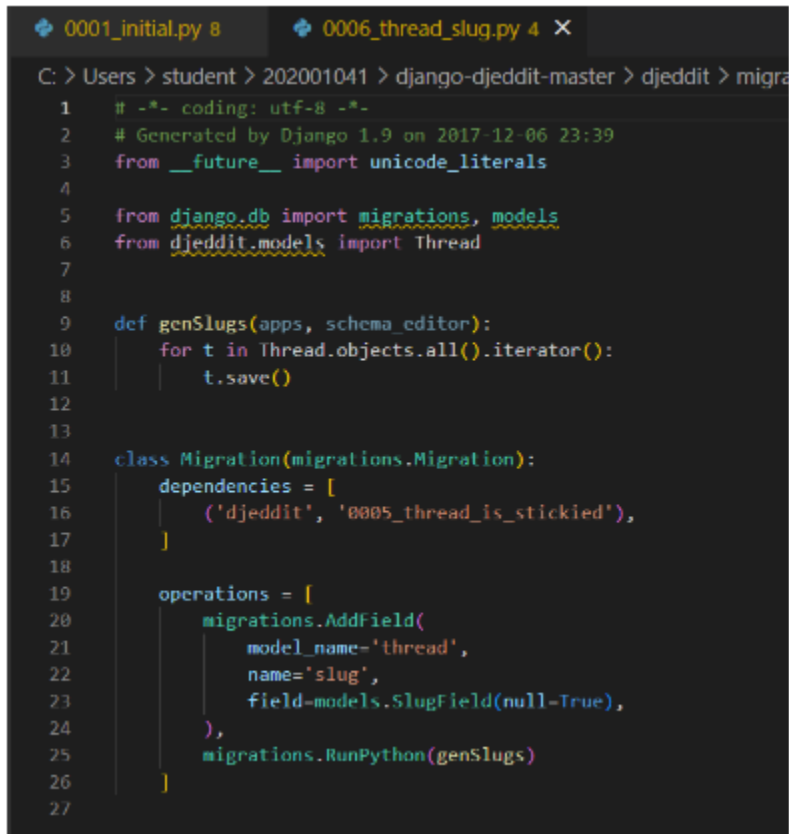
- Different types of errors are :
 1. Line too long : A line contains too many characters
 2. Missing module docstring : Used when a module has no docstring.
 3. Unable to import : occurs when the Python program tries to import module which does not exist in the private table
 4. Missing class docstring : the class has no docstring
 5. Too few public methods : classes aren't meant to just store data, as you're basically treating the class as a dictionary

0006_thread_slug error snippet

```
C:\Users\student\202001041\django-djeddit-master\djeddit\migrations>py -m pylint 0006_thread_slug.py
***** Module djeddit.migrations.0006_thread_slug
0006_thread_slug.py:1:0: C0114: Missing module docstring (missing-module-docstring)
0006_thread_slug.py:1:0: C0103: Module name "0006_thread_slug" doesn't conform to snake_case naming style (invalid-name)
0006_thread_slug.py:5:0: E0401: Unable to import 'django.db' (import-error)
0006_thread_slug.py:9:0: C0116: Missing function or method docstring (missing-function-docstring)
0006_thread_slug.py:9:0: C0103: Function name "genSlugs" doesn't conform to snake_case naming style (invalid-name)
0006_thread_slug.py:10:8: C0103: Variable name "l" doesn't conform to snake_case naming style (invalid-name)
0006_thread_slug.py:9:13: W0613: Unused argument 'apps' (unused-argument)
0006_thread_slug.py:9:19: W0613: Unused argument 'schema_editor' (unused-argument)
0006_thread_slug.py:14:0: C0115: Missing class docstring (missing-class-docstring)
0006_thread_slug.py:14:0: R0903: Too few public methods (0/2) (too-few-public-methods)

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Your code has been rated at 0.00/10
```

0006_thread_slug code snippet



```
0001_initial.py 8 0006_thread_slug.py 4 X
C: > Users > student > 202001041 > django-djeddit-master > djeddit > migra
1  # -*- coding: utf-8 -*-
2  # Generated by Django 1.9 on 2017-12-06 23:39
3  from __future__ import unicode_literals
4
5  from django.db import migrations, models
6  from djeddit.models import Thread
7
8
9  def genSlugs(apps, schema_editor):
10     for t in Thread.objects.all().iterator():
11         t.save()
12
13
14  class Migration(migrations.Migration):
15     dependencies = [
16         ('djeddit', '0005_thread_is_stickied'),
17     ]
18
19     operations = [
20         migrations.AddField(
21             model_name='thread',
22             name='slug',
23             field=models.SlugField(null=True),
24         ),
25         migrations.RunPython(genSlugs)
26     ]
27
```

- Different types of error :
 1. Missing module docstring : Used when a module has no docstring.
 2. Module name "0006_thread_slug" doesn't conform to snake_case naming style.
 3. Unable to import 'django.db'
 4. Missing function or method docstring : used when a function or method has no docstring
 5. Variable name "t" doesn't conform to snake_case naming style
 6. Unused argument 'apps' : we specified the argument 'apps' within our function, even though this argument is not defined for this function.

7. Unused argument 'schema_editor' : we specified the argument 'schema_editor' within our function, even though this argument is not defined for this function.
8. Missing class docstring : when a module has no docstring.
9. Too few public methods : classes aren't meant to just store data, as you're basically treating the class as a dictionary