

Django db

Tuesday, April 3, 2018 8:36 AM

CRUD:

python manage.py shell

Making the backend app

```
1008 python manage.py startapp backend
```

Add this app to main settings.py

```
# Application definition

INSTALLED_APPS = [
    'backend.apps.BackendConfig',
    'music.apps.MusicConfig',
    'hello',
    'polls.apps.PollsConfig',
    'classdemo',
    'classdemo2',
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
]
```

Edit:

Models to create tables and columns

```
models.py  admin.py  apps.py

1  from django.db import models
2
3  # Create your models here.
4
5
6  class User(models.Model):
7      # these names are the columns
8      username = models.CharField(max_length=100)
9      fname = models.CharField(max_length=100)
10     lname = models.CharField(max_length=100)
11     mname = models.CharField(max_length=100)
12     address = models.TextField()
13     officenum = models.CharField(max_length=15)
14     cellnum = models.CharField(max_length=15)
15     email = models.EmailField()
16
17     def __str__(self):
18         return "Name: %s, Username: %s" % (self.name, self.username)
19
20
```

Adding foreign keys to tables

```
20
21 class TestLab(models.Model):
22     name = models.CharField(max_length=100)
23     address = models.TextField()
24     contact = models.ForeignKey(User, on_delete=models.CASCADE)
25
26     def __str__(self):
27         return "Name: %s" % (self.name)
28
29
```

Optional:

Show tables in admin page

```

models.py  admin.py  apps.py  settings.py
1  from django.contrib import admin
2  from .models import *
3
4  # Register your models here.
5  admin.site.register(User)
6  admin.site.register(TestLab)
7  admin.site.register(Manufacturer)
8  admin.site.register(Product)
9  admin.site.register(TestResult)
10

```

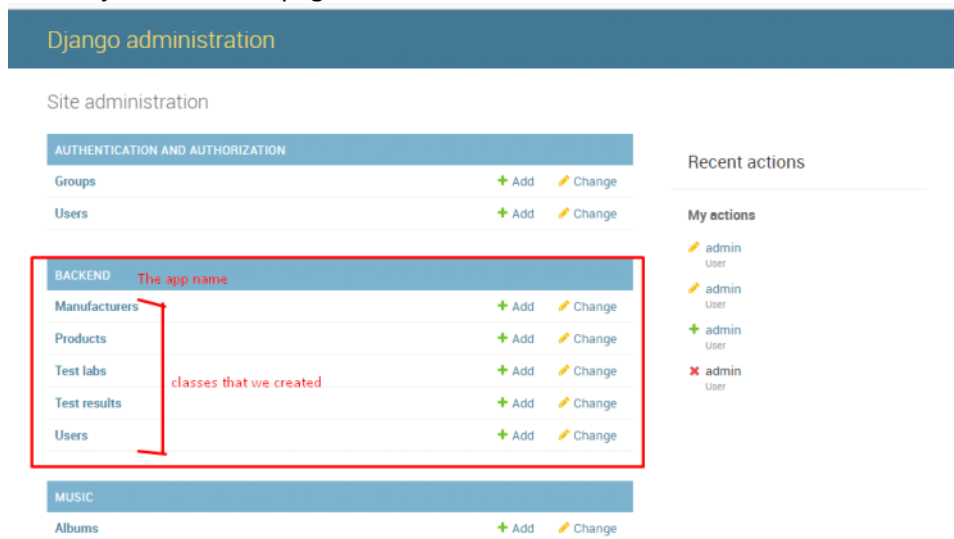
After all changes we migrate

python manage.py makemigrations

python manage.py migrate

Run server to test

If we adjust the admin page



We can add items into the table from here

Inserting data into the table

```

Applying backend.0005_auto_20180404_0539... OK
(mynew_env) [mwtester@localhost suorganizer]$ python manage.py shell
Python 3.6.3 (default, Jan  4 2018, 16:40:53)
[GCC 4.8.5 20150623 (Red Hat 4.8.5-16)] on linux
Type "help", "copyright", "credits" or "license" for more information.
(InteractiveConsole)
>>> from backend.models import *
>>> user1 = User()
>>> user1.fname = 'John'
>>> user1.username = 'firstuser'
>>> user1
<User: Name: John has Username: firstuser>
>>> user1.save()
>>>

```