(djangoPy3Env) Homes-MacBook-Pro-2:django\_fundamentals home$ django-admin startproject dojo\_ninja

(djangoPy3Env) Homes-MacBook-Pro-2:django\_fundamentals home$ cd dojo\_ninja

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ mkdir apps

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ cd apps

(djangoPy3Env) Homes-MacBook-Pro-2:apps home$ touch \_\_init\_\_.py

(djangoPy3Env) Homes-MacBook-Pro-2:apps home$ python ../manage.py startapp dojo\_ninja\_app

(djangoPy3Env) Homes-MacBook-Pro-2:apps home$ ls

\_\_init\_\_.py dojo\_ninja\_app

(djangoPy3Env) Homes-MacBook-Pro-2:apps home$ cd ..

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ ls

apps dojo\_ninja manage.py

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ python manage.py makemigrations

**Migrations for 'dojo\_ninja\_app':**

**apps/dojo\_ninja\_app/migrations/0001\_initial.py**:

- Create model Dojo

- Create model Ninja

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ python manage.py migrate

**Operations to perform:**

**Apply all migrations:** admin, auth, contenttypes, dojo\_ninja\_app, sessions

**Running migrations:**

Rendering model states... **DONE**

Applying contenttypes.0001\_initial... **OK**

Applying auth.0001\_initial... **OK**

Applying admin.0001\_initial... **OK**

Applying admin.0002\_logentry\_remove\_auto\_add... **OK**

Applying contenttypes.0002\_remove\_content\_type\_name... **OK**

Applying auth.0002\_alter\_permission\_name\_max\_length... **OK**

Applying auth.0003\_alter\_user\_email\_max\_length... **OK**

Applying auth.0004\_alter\_user\_username\_opts... **OK**

Applying auth.0005\_alter\_user\_last\_login\_null... **OK**

Applying auth.0006\_require\_contenttypes\_0002... **OK**

Applying auth.0007\_alter\_validators\_add\_error\_messages... **OK**

Applying auth.0008\_alter\_user\_username\_max\_length... **OK**

Applying dojo\_ninja\_app.0001\_initial... **OK**

Applying sessions.0001\_initial... **OK**

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ python manage.py shell

Python 3.7.0 (default, Sep 18 2018, 18:47:08)

[Clang 10.0.0 (clang-1000.10.43.1)] on darwin

Type "help", "copyright", "credits" or "license" for more information.

(InteractiveConsole)

>>> exit()

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ python manage.py makemigrations

You are trying to add a non-nullable field 'state' to dojo without a default; we can't do that (the database needs something to populate existing rows).

Please select a fix:

1) Provide a one-off default now (will be set on all existing rows with a null value for this column)

2) Quit, and let me add a default in models.py

Select an option: 1

Please enter the default value now, as valid Python

The datetime and django.utils.timezone modules are available, so you can do e.g. timezone.now

Type 'exit' to exit this prompt

>>> exit()

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ python manage.py migrate

**Operations to perform:**

**Apply all migrations:** admin, auth, contenttypes, dojo\_ninja\_app, sessions

**Running migrations:**

No migrations to apply.

Your models have changes that are not yet reflected in a migration, and so won't be applied.

Run 'manage.py makemigrations' to make new migrations, and then re-run 'manage.py migrate' to apply them.

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ python manage.py makemigrations

You are trying to add a non-nullable field 'state' to dojo without a default; we can't do that (the database needs something to populate existing rows).

Please select a fix:

1) Provide a one-off default now (will be set on all existing rows with a null value for this column)

2) Quit, and let me add a default in models.py

Select an option: 2

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ python manage.py migrate

**Operations to perform:**

**Apply all migrations:** admin, auth, contenttypes, dojo\_ninja\_app, sessions

**Running migrations:**

No migrations to apply.

Your models have changes that are not yet reflected in a migration, and so won't be applied.

Run 'manage.py makemigrations' to make new migrations, and then re-run 'manage.py migrate' to apply them.

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ python manage.py shell

Python 3.7.0 (default, Sep 18 2018, 18:47:08)

[Clang 10.0.0 (clang-1000.10.43.1)] on darwin

Type "help", "copyright", "credits" or "license" for more information.

(InteractiveConsole)

>>> Dojo.objects.create(name='Eric', city='San Jose', state='CA')

Traceback (most recent call last):

File "<console>", line 1, in <module>

NameError: name 'Dojo' is not defined

>>> from apps.dojo\_ninja\_app.models import \*

>>> Dojo.objects.create(name='Eric', city='San Jose', state='CA')

Traceback (most recent call last):

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/backends/utils.py", line 64, in execute

return self.cursor.execute(sql, params)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/backends/sqlite3/base.py", line 337, in execute

return Database.Cursor.execute(self, query, params)

sqlite3.OperationalError: table dojo\_ninja\_app\_dojo has no column named state

The above exception was the direct cause of the following exception:

Traceback (most recent call last):

File "<console>", line 1, in <module>

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/models/manager.py", line 85, in manager\_method

return getattr(self.get\_queryset(), name)(\*args, \*\*kwargs)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/models/query.py", line 399, in create

obj.save(force\_insert=True, using=self.db)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/models/base.py", line 796, in save

force\_update=force\_update, update\_fields=update\_fields)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/models/base.py", line 824, in save\_base

updated = self.\_save\_table(raw, cls, force\_insert, force\_update, using, update\_fields)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/models/base.py", line 908, in \_save\_table

result = self.\_do\_insert(cls.\_base\_manager, using, fields, update\_pk, raw)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/models/base.py", line 947, in \_do\_insert

using=using, raw=raw)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/models/manager.py", line 85, in manager\_method

return getattr(self.get\_queryset(), name)(\*args, \*\*kwargs)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/models/query.py", line 1043, in \_insert

return query.get\_compiler(using=using).execute\_sql(return\_id)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/models/sql/compiler.py", line 1054, in execute\_sql

cursor.execute(sql, params)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/backends/utils.py", line 79, in execute

return super(CursorDebugWrapper, self).execute(sql, params)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/backends/utils.py", line 64, in execute

return self.cursor.execute(sql, params)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/utils.py", line 94, in \_\_exit\_\_

six.reraise(dj\_exc\_type, dj\_exc\_value, traceback)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/utils/six.py", line 685, in reraise

raise value.with\_traceback(tb)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/backends/utils.py", line 64, in execute

return self.cursor.execute(sql, params)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/backends/sqlite3/base.py", line 337, in execute

return Database.Cursor.execute(self, query, params)

django.db.utils.OperationalError: table dojo\_ninja\_app\_dojo has no column named state

>>> exit()

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ ls

apps db.sqlite3 dojo\_ninja manage.py

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ python manage.py makemigrations

You are trying to add a non-nullable field 'state' to dojo without a default; we can't do that (the database needs something to populate existing rows).

Please select a fix:

1) Provide a one-off default now (will be set on all existing rows with a null value for this column)

2) Quit, and let me add a default in models.py

Select an option: 1

Please enter the default value now, as valid Python

The datetime and django.utils.timezone modules are available, so you can do e.g. timezone.now

Type 'exit' to exit this prompt

>>> ""

**Migrations for 'dojo\_ninja\_app':**

**apps/dojo\_ninja\_app/migrations/0002\_auto\_20181018\_2006.py**:

- Add field state to dojo

- Alter field city on dojo

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ python manage.py migrate

**Operations to perform:**

**Apply all migrations:** admin, auth, contenttypes, dojo\_ninja\_app, sessions

**Running migrations:**

Rendering model states... **DONE**

Applying dojo\_ninja\_app.0002\_auto\_20181018\_2006... **OK**

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ python manage.py shell

Python 3.7.0 (default, Sep 18 2018, 18:47:08)

[Clang 10.0.0 (clang-1000.10.43.1)] on darwin

Type "help", "copyright", "credits" or "license" for more information.

(InteractiveConsole)

>>> from apps.ninja\_dojo\_app.models import \*

Traceback (most recent call last):

File "<console>", line 1, in <module>

ModuleNotFoundError: No module named 'apps.ninja\_dojo\_app'

>>> from apps.dojo\_ninja\_app.models import \*

>>> Dojo.objects.create(name='Eric', city='San Jose', state='CA')

<Dojo: Dojo object>

>>> Dojo.objects.create(name='Timami', city='Fremont', state='CA')

<Dojo: Dojo object>

>>> Dojo.objects.create(name='Serge', city='Pittsburgh', state='PA')

<Dojo: Dojo object>

>>> Dojo.objects.create(name='Dimi', city='Pittsburg', state='CA')

<Dojo: Dojo object>

>>> Dojo.objects.create(name='Toto', city='Washingthon DC', state='WA')

<Dojo: Dojo object>

>>> Ninja.objects.create(first\_name='fn1', last\_name='ln1', dojo\_id='1')

<Ninja: Ninja object>

>>> Ninja.objects.create(first\_name='fn2', last\_name='ln2', dojo\_id='1')

<Ninja: Ninja object>

>>> Ninja.objects.create(first\_name='fn3', last\_name='ln3', dojo\_id='1')

<Ninja: Ninja object>

>>> Ninja.objects.create(first\_name='fn4', last\_name='ln4', dojo\_id='2')

<Ninja: Ninja object>

>>> Ninja.objects.create(first\_name='fn4', last\_name='ln5', dojo\_id='2')

<Ninja: Ninja object>

>>> Ninja.objects.create(first\_name='fn6', last\_name='ln6', dojo\_id='3')

<Ninja: Ninja object>

>>> Ninja.objects.create(first\_name='fn7', last\_name='ln7', dojo\_id='4')

<Ninja: Ninja object>

>>> Ninja.objects.create(first\_name='fn8', last\_name='ln8', dojo\_id='4')

<Ninja: Ninja object>

>>> Ninja.objects.create(first\_name='fn9', last\_name='ln8', dojo\_id='4')

<Ninja: Ninja object>

>>> Ninja.objects.create(first\_name='fn10', last\_name='ln10', dojo\_id='4')

<Ninja: Ninja object>

>>> Dojo.objects.first().ninjas.all()

<QuerySet [<Ninja: Ninja object>, <Ninja: Ninja object>, <Ninja: Ninja object>]>

>>> Dojo.objects.first().ninjas.all()[0].first\_name

'fn1'

>>> Dojo.objects.first().ninjas.all()[2].first\_name

'fn3'

>>> Dojo.objects.first().ninjas.all().first\_name

Traceback (most recent call last):

File "<console>", line 1, in <module>

AttributeError: 'QuerySet' object has no attribute 'first\_name'

>>> Dojo.objects.all()

<QuerySet [<Dojo: Dojo object>, <Dojo: Dojo object>, <Dojo: Dojo object>, <Dojo: Dojo object>, <Dojo: Dojo object>]>

>>> Dojo.objects.all()[0].\_\_dict\_\_

{'\_state': <django.db.models.base.ModelState object at 0x10b118eb8>, 'id': 1, 'name': 'Eric', 'city': 'San Jose', 'state': 'CA'}

>>> Dojo.objects.first().ninjas.all()[0].\_\_dict\_\_

{'\_state': <django.db.models.base.ModelState object at 0x10b129240>, 'id': 1, 'first\_name': 'fn1', 'last\_name': 'ln1', 'dojo\_id': 1, '\_dojo\_cache': <Dojo: Dojo object>}

>>> Dojo.objects.first().ninjas.all()[2].\_\_dict\_\_

{'\_state': <django.db.models.base.ModelState object at 0x10b1295f8>, 'id': 3, 'first\_name': 'fn3', 'last\_name': 'ln3', 'dojo\_id': 1, '\_dojo\_cache': <Dojo: Dojo object>}

>>> Dojo.objects.[3].ninjas.all()[2]

File "<console>", line 1

Dojo.objects.[3].ninjas.all()[2]

^

SyntaxError: invalid syntax

>>> Dojo.objects.get(id=4).ninjas.all()

<QuerySet [<Ninja: Ninja object>, <Ninja: Ninja object>, <Ninja: Ninja object>, <Ninja: Ninja object>]>

>>> Dojo.objects.get(id=4).ninjas.all()[3].\_\_dict\_\_

{'\_state': <django.db.models.base.ModelState object at 0x10b129cf8>, 'id': 10, 'first\_name': 'fn10', 'last\_name': 'ln10', 'dojo\_id': 4, '\_dojo\_cache': <Dojo: Dojo object>}

>>> exit()

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ python manage.py makemigrations

You are trying to add a non-nullable field 'desc' to dojo without a default; we can't do that (the database needs something to populate existing rows).

Please select a fix:

1) Provide a one-off default now (will be set on all existing rows with a null value for this column)

2) Quit, and let me add a default in models.py

Select an option: 1

Please enter the default value now, as valid Python

The datetime and django.utils.timezone modules are available, so you can do e.g. timezone.now

Type 'exit' to exit this prompt

>>> "big", "Expert", "smart", "Ingenious"

**Migrations for 'dojo\_ninja\_app':**

**apps/dojo\_ninja\_app/migrations/0003\_dojo\_desc.py**:

- Add field desc to dojo

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ python manage.py migrate

**Operations to perform:**

**Apply all migrations:** admin, auth, contenttypes, dojo\_ninja\_app, sessions

**Running migrations:**

Rendering model states... **DONE**

Applying dojo\_ninja\_app.0003\_dojo\_desc... **OK**

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ python manage.py shell

Python 3.7.0 (default, Sep 18 2018, 18:47:08)

[Clang 10.0.0 (clang-1000.10.43.1)] on darwin

Type "help", "copyright", "credits" or "license" for more information.

(InteractiveConsole)

>>> Dojo.objects.first().desc

Traceback (most recent call last):

File "<console>", line 1, in <module>

NameError: name 'Dojo' is not defined

>>> exit()

(djangoPy3Env) Homes-MacBook-Pro-2:dojo\_ninja home$ python manage.py shell

Python 3.7.0 (default, Sep 18 2018, 18:47:08)

[Clang 10.0.0 (clang-1000.10.43.1)] on darwin

Type "help", "copyright", "credits" or "license" for more information.

(InteractiveConsole)

>>> from apps.dojo\_ninja.models import \*

Traceback (most recent call last):

File "<console>", line 1, in <module>

ModuleNotFoundError: No module named 'apps.dojo\_ninja'

>>> from apps.dojo\_ninja\_app.models import \*

>>> Dojo.objects.first().desc

"('big', 'Expert', 'smart', 'Ingenious')"

>>> dojo = Dojo.objects.get(id=1)

>>> dojo.desc = "big"

>>> dojo.save()

>>> Dojo.objects.first().desc

'big'

>>>