

```
Jordansun@Jordans-MacBook-Pro ~ % cd Desktop
Jordansun@Jordans-MacBook-Pro Desktop % cd Design\ VI
Jordansun@Jordans-MacBook-Pro Design VI % ls
lsbl & 2 command line
Jordansun@Jordans-MacBook-Pro Design VI % django-admin startproject stevens
Jordansun@Jordans-MacBook-Pro Design VI % ls
lsbl & 2 command line stevens
Jordansun@Jordans-MacBook-Pro Design VI % cd stevens
Jordansun@Jordans-MacBook-Pro stevens % ls
manage.py stevens
Jordansun@Jordans-MacBook-Pro stevens % python3 manage.py startapp myapp
Jordansun@Jordans-MacBook-Pro stevens % ls
manage.py myapp stevens
Jordansun@Jordans-MacBook-Pro stevens % sudo mysql -u root -p
Password:
sudo: mysql: command not found
Jordansun@Jordans-MacBook-Pro stevens % brew install mysql
==> Auto-updated Homebrew!
Updated 1 tap (homebrew/core).
==> New Formulae
aarch64-elf-binutils dsq dynaconf quick-lint-js wordle
==> Updated Formulae
Updated 226 formulae.
==> Deleted Formulae
advancemenu pdflib-lite
==> Downloading https://ghcr.io/v2/homebrew/core/libcbor/manifests/0.9.0
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/libcbor/blobs/sha256:abb91ce404c53552b9ec1f2a4800bc2c1a9e83cd1692d8b1e1612b4734b92925
==> Downloading from https://pkg-containers.githubusercontent.com/ghcr1/blobs/sha256:ebb91ce404c53552b9ec1f2a4800bc2c1a9e83cd1692d8b1e1612b4734b92925?se=2022-03-01T05%3A15%3A00Z&sig=g0V53N1Mo8fNfmTs283dH
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/libfido2/manifests/1.10.0
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/libfido2/blobs/sha256:e78d1d760c1c61c74ee753e38f1803aafdc516b83f446ddb43edc5245475ed3
==> Downloading https://pkg-containers.githubusercontent.com/ghcr1/blobs/sha256:e78d1d760c1c61c74ee753e38f1803aafdc516b83f446ddb43edc5245475ed3?se=2022-03-01T05%3A15%3A00Z&sig=Jup6bnjs2WUp5v8WkMIR4k
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/mysql/manifests/8.0.28
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/mysql/blobs/sha256:5f6efe3a8985554af3c5a2f74e1029971d7fbeb13922aae117cfff7bdeba58
==> Downloading from https://pkg-containers.githubusercontent.com/ghcr1/blobs/sha256:5f6efe3a8985554af3c5a2f74e1029971d7fbeb13922aae117cfff7bdeba58?se=2022-03-01T05%3A15%3A00Z&sig=BMJN2f68eAuJlCpFX48se
##### 100.0%
==> Installing dependencies for mysql: libcbor and libfido2
==> Installing mysql dependency: libcbor
==> Pouring libcbor--0.9.0.arm64_monterey.bottle.tar.gz
  0 /opt/homebrew/Cellar/libcbor/0.9.0: 31 files, 180KB
==> Installing mysql dependency: libfido2
==> Pouring libfido2--1.10.0.arm64_monterey.bottle.tar.gz
  0 /opt/homebrew/Cellar/libfido2/1.10.0: 510 files, 1.2MB
```

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Type 'help;' or 'h' for help. Type 'c' to clear the current input statement.

```
mysql> help
```

For information about MySQL products and services, visit:

<http://www.mysql.com/>

For developer information, including the MySQL Reference Manual, visit:

<http://dev.mysql.com/>

To buy MySQL Enterprise support, training, or other products, visit:

<https://shop.mysql.com/>

List of all MySQL commands:

Note that all text commands must be first on line and end with ';'.

```
? (V) Synonym for 'help'.
clear (C) Clear the current input statement.
connect (V) Reconnect to the server. Optional arguments are db and host.
delimiter (V) Set statement delimiter.
edit (E) Edit command with SEDITOR.
end (Q) Send command to mysql server, display result vertically.
exit (Q) Exit mysql. Same as quit.
go (G) Send command to mysql server.
help (H) Display this help.
nopager (N) Disable pager, print to stdout.
notee (N) Don't write into outfile.
pager (P) Set PAGER [to.pager]. Print the query results via PAGER.
print (P) Print current command.
prompt (V) Change your mysql prompt.
quit (Q) Quit mysql.
rehash (R) Rebuild completion hash.
source (S) Execute an SQL script file. Takes a file name as an argument.
status (S) Get status information from the server.
system (V) Execute a system shell command.
tee (T) Set outfile [to.outfile]. Append everything into given outfile.
use (U) Use another database. Takes database name as argument.
charset (C) Switch to another charset. Might be needed for processing binlog with multi-byte charsets.
warnings (W) Show warnings after every statement.
nowarnings (W) Don't show warnings after every statement.
resetconnection(X) Clean session context.
query_attributes Sets string parameters (name1 value1 name2 value2 ...) for the next query to pick up.
```

For server side help, type 'help contents'

```
mysql> create user pi@localhost identified by 'PASSWORD';
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> select user, host from mysql.user;
```

user	host
mysql.infoschema	localhost
mysql.session	localhost
mysql.sys	localhost
pi	localhost
root	localhost

5 rows in set (0.00 sec)

```
mysql> show databases;
```

Database
information_schema
mysql
performance_schema
sys

4 rows in set (0.00 sec)

```
mysql> create database stevens;
```

Query OK, 1 row affected (0.00 sec)

```
mysql> grant all privileges on stevens.* to pi@localhost;
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> quit
```

Bye

Jordansun@Jordans-MacBook-Pro stevens %

stevens — vim settings.py — 204x54

```
"""
Django settings for stevens project.

Generated by 'django-admin startproject' using Django 4.0.2.

For more information on this file, see
https://docs.djangoproject.com/en/4.0/topics/settings/

For the full list of settings and their values, see
https://docs.djangoproject.com/en/4.0/ref/settings/
"""

from pathlib import Path

# Build paths inside the project like this: BASE_DIR / 'subdir'.
BASE_DIR = Path(__file__).resolve().parent.parent

# Quick-start development settings - unsuitable for production
# See https://docs.djangoproject.com/en/4.0/howto/deployment/checklist/

# SECURITY WARNING: keep the secret key used in production secret!
SECRET_KEY = 'django-insecure-g%w$cliw"qnjqx&l-j9815bu-j=vv$Sw7+yz+-b2b_a)(s^'

# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = True

ALLOWED_HOSTS = []

# Application definition

INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'myapp',
]

MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
]

ROOT_URLCONF = 'stevens.urls'

"settings.py" 133L, 3497B
```

stevens — vim settings.py — 204x54

```

]

ROOT_URLCONF = 'stevens.urls'

TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [],
        'APP_DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messages',
            ],
        },
    ],
]

WSGI_APPLICATION = 'stevens.wsgi.application'

# Database
# https://docs.djangoproject.com/en/4.0/ref/settings/#databases

DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': BASE_DIR / 'db.sqlite3',
        'ENGINE': 'django.db.backends.mysql',
        'NAME': 'stevens',
        'USER': 'pi',
        'PASSWORD': 'raspberrypi',
        'HOST': '',
        'PORT': '',
        'OPTIONS': {
            'init_command': "SET sql_mode='STRICT_TRANS_TABLES'",
        },
    }
}

# Password validation
# https://docs.djangoproject.com/en/4.0/ref/settings/#auth-password-validators

AUTH_PASSWORD_VALIDATORS = [
    {
        'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
    },
]
```

stevens — vim settings.py — 204x54

```
'ENGINE': 'django.db.backends.mysql',
'NAME': 'stevens',
'USER': 'pi',
'PASSWORD': 'raspberrypi',
'HOST': '',
'PORT': '',
'OPTIONS': {
    'init_command': "SET sql_mode='STRICT_TRANS_TABLES'",
},
}

# Password validation
# https://docs.djangoproject.com/en/4.0/ref/settings/#auth-password-validators
AUTH_PASSWORD_VALIDATORS = [
    {
        'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
    },
]

# Internationalization
# https://docs.djangoproject.com/en/4.0/topics/i18n/
LANGUAGE_CODE = 'en-us'
TIME_ZONE = 'UTC'
USE_I18N = True
USE_TZ = True

# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/4.0/howto/static-files/
STATIC_URL = 'static/'

# Default primary key field type
# https://docs.djangoproject.com/en/4.0/ref/settings/#default-auto-field
DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'
```

```
jordansun@Jordans-MacBook-Pro stevens % ls
__init__.py  __pycache__  asgi.py      settings.py  urls.py      wsgi.py
jordansun@Jordans-MacBook-Pro stevens % vim settings.py
jordansun@Jordans-MacBook-Pro stevens % vim settings.py
jordansun@Jordans-MacBook-Pro stevens % cp ~/Desktop/github/iot/lesson4/stevens/urls.py .
jordansun@Jordans-MacBook-Pro stevens % ls
__init__.py  __pycache__  asgi.py      settings.py  urls.py      wsgi.py
jordansun@Jordans-MacBook-Pro stevens % cd ..
jordansun@Jordans-MacBook-Pro stevens % ls
manage.py    myapp        stevens
jordansun@Jordans-MacBook-Pro stevens % cd myapp
jordansun@Jordans-MacBook-Pro myapp % ls
__init__.py  admin.py     apps.py      migrations  models.py    tests.py    views.py
jordansun@Jordans-MacBook-Pro myapp % cp ~/Desktop/github/iot/lesson4/stevens/admin.py .
jordansun@Jordans-MacBook-Pro myapp % cp ~/Desktop/github/iot/lesson4/stevens/models.py .
jordansun@Jordans-MacBook-Pro myapp % cp ~/Desktop/github/iot/lesson4/stevens/views.py .
jordansun@Jordans-MacBook-Pro myapp % ls
__init__.py  admin.py     apps.py      migrations  models.py    tests.py    views.py
jordansun@Jordans-MacBook-Pro myapp % mkdir static templates
jordansun@Jordans-MacBook-Pro myapp % cd templates
jordansun@Jordans-MacBook-Pro templates % mkdir myapp
jordansun@Jordans-MacBook-Pro templates % cd myapp
jordansun@Jordans-MacBook-Pro myapp % cp ~/Desktop/github/iot/lesson4/stevens/index.html .
jordansun@Jordans-MacBook-Pro myapp % ls
index.html
jordansun@Jordans-MacBook-Pro myapp %
```

```
jordansun@Jordans-MacBook-Pro myapp % pwd
/Users/jordansun/Desktop/Design VI/stevens/myapp/templates/myapp
jordansun@Jordans-MacBook-Pro myapp % ls
index.html
jordansun@Jordans-MacBook-Pro myapp % cd ..
jordansun@Jordans-MacBook-Pro templates % cd ..
jordansun@Jordans-MacBook-Pro myapp % ls
__init__.py      admin.py         apps.py          migrations      models.py        static           templates        tests.py        views.py
jordansun@Jordans-MacBook-Pro myapp % cd static
jordansun@Jordans-MacBook-Pro static % ls
usage: cp [-R [-H | -L | -P]] [-fi | -nl [-apvXc]] source_file target_file
        cp [-R [-H | -L | -P]] [-fi | -nl [-apvXc]] source_file ... target_directory
jordansun@Jordans-MacBook-Pro static % cp ~/Desktop/github/iot/lesson4/static/favicon.ico .
jordansun@Jordans-MacBook-Pro static % mkdir myapp
jordansun@Jordans-MacBook-Pro static % cd myapp
jordansun@Jordans-MacBook-Pro myapp % ls
jordansun@Jordans-MacBook-Pro myapp % cd ..
jordansun@Jordans-MacBook-Pro myapp % cp ~/Desktop/github/iot/lesson4/static/*.css .
jordansun@Jordans-MacBook-Pro myapp % cp ~/Desktop/github/iot/lesson4/static/*.js .
jordansun@Jordans-MacBook-Pro myapp % cd ..
jordansun@Jordans-MacBook-Pro static % cd ..
jordansun@Jordans-MacBook-Pro myapp % ls
__init__.py      admin.py         apps.py          migrations      models.py        static           templates        tests.py        views.py
jordansun@Jordans-MacBook-Pro myapp % pwd
/Users/jordansun/Desktop/Design VI/stevens/myapp
jordansun@Jordans-MacBook-Pro myapp % cd ..
jordansun@Jordans-MacBook-Pro stevens %
```

```
jordansun@Jordans-MacBook-Pro stevens % python3 manage.py makemigrations myapp
Traceback (most recent call last):
  File "/Users/jordansun/Desktop/Design VI/stevens/manage.py", line 22, in <module>
    main()
  File "/Users/jordansun/Desktop/Design VI/stevens/manage.py", line 18, in main
    execute_from_command_line(sys.argv)
  File "/opt/homebrew/lib/python3.9/site-packages/django/core/management/__init__.py", line 425, in execute_from_command_line
    utility.execute()
  File "/opt/homebrew/lib/python3.9/site-packages/django/core/management/__init__.py", line 369, in execute
    settings.INSTALLED_APPS
  File "/opt/homebrew/lib/python3.9/site-packages/django/conf/__init__.py", line 84, in __getattr__
    self._setup(name)
  File "/opt/homebrew/lib/python3.9/site-packages/django/conf/__init__.py", line 71, in _setup
    self._wrapped = Settings(settings_module)
  File "/opt/homebrew/lib/python3.9/site-packages/django/conf/__init__.py", line 179, in __init__
    mod = importlib.import_module(self.SETTINGS_MODULE)
  File "/opt/homebrew/Cellar/python@3.9/3.9.10/Frameworks/Python.framework/Versions/3.9/lib/python3.9/importlib/__init__.py", line 127, in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
  File "<frozen importlib._bootstrap>", line 1030, in _gcd_import
  File "<frozen importlib._bootstrap>", line 1007, in _find_and_load
  File "<frozen importlib._bootstrap>", line 986, in _find_and_load_unlocked
  File "<frozen importlib._bootstrap>", line 680, in _load_unlocked
  File "<frozen importlib._bootstrap_external>", line 846, in exec_module
  File "<frozen importlib._bootstrap_external>", line 983, in get_code
  File "<frozen importlib._bootstrap_external>", line 913, in source_to_code
  File "<frozen importlib._bootstrap>", line 228, in _call_with_frames_removed
  File "/Users/jordansun/Desktop/Design VI/stevens/stevens/settings.py", line 28
    ALLOWED_HOSTS = [*]
                    ^
SyntaxError: invalid syntax
jordansun@Jordans-MacBook-Pro stevens %
```