# Django 3.1

- Django 3.1 supports Python 3.6, 3.7, and 3.8.
- Asynchronous views and middleware support
- JSONField for all supported database backends
- DEFAULT\_HASHING\_ALGORITHM settings
- Django 3.1 supports MariaDB 10.2 and higher.
- The admin no longer supports the legacy Internet Explorer browser.
- The admin now has a sidebar on larger screens for easier navigation.
- The settings.py generated by the startproject command now uses pathlib.Path instead of os.path for building filesystem paths.

#### Features Deprecated in 3.1

- PASSWORD\_RESET\_TIMEOUT\_DAYS setting is deprecated in favor of PASSWORD RESET TIMEOUT.
- The HttpRequest.is\_ajax() method is deprecated.
- providing\_args argument for Signal is deprecated.
- The passing of URL kwargs directly to the context by TemplateView is deprecated. Reference them in the template with view.kwargs instead.
- The NullBooleanField model field is deprecated in favor of BooleanField(null=True).

#### Asynchronous Views and Middleware

```
# views.py
async def my_view(request):
  await asyncio.sleep(0.5)
  return HttpResponse('Hello, async world!')
```

All asynchronous features are supported whether you are running under WSGI or ASGI mode.

If you make External HTTP calls from a view, You can use async View.

The ORM, cache layer, and several other parts of code that involve long-running network calls do not support async yet.

#### **Pathlib**

The settings.py generated by the startproject command now uses pathlib.Path instead of os.path for building filesystem paths.

```
# settings.py
import os
BASE_DIR = os.path.dirname(os.path.dirname(os.path.abspath( file )))
DATABASES = {
  'default': {
     'ENGINE': 'django.db.backends.sqlite3',
     'NAME': os.path.join(BASE DIR, 'db.sqlite3'),
BASE DIR = Path( file ).resolve(strict=True).parent.parent
'NAME': BASE DIR / 'db.sqlite3',
```

## The admin now has a sidebar

• The admin now has a sidebar on larger screens for easier navigation.

## PASSWORD\_RESET\_TIMEOUT

• PASSWORD RESET TIMEOUT DAYS = 3

• PASSWORD\_RESET\_TIMEOUT = 5000

## Templates inside Project

#### settings.py

```
Old Django Version 3.0
TEMPLATES DIR = os.path.join(BASE_DIR, 'templates')
TEMPLATES DIR = BASE DIR / 'templates'
INSTALLED APPS = [
    'course',
   'fees'
TEMPLATES = [
    'DIRS': [TEMPLATES DIR],
    'APP DIRS': True,
```

```
geekyshows
> migrations
  🌏 __init__.py
  admin.py
  🌏 apps.py
  models.py
  ests.py
  urls.py
  views.py
> fees
> iii _pycache_
  __init__.py
  🌎 asgi.py
  ettings.py
  👘 urls.py
  wsgi.py
courseone.html

✓ 

fees

fees

   feesone.html
   feestwo.html
  🙌 manage.py
```

# Static inside Project

```
settings.py
TEMPLATES DIR = BASE DIR / 'templates'
Old Django Version 3.0
STATIC DIR = os.path.join(BASE DIR, 'static')
STATIC_DIR = BASE_DIR / 'static'
INSTALLED APPS = [
    'course'
TEMPLATES = [
    'DIRS': [TEMPLATES_DIR]
STATIC URL = '/static/'
```

STATICFILES\_DIRS = [ STATIC\_DIR ]

```
geekyshows
> ii _pycache_
         > migrations

✓ 

diagram

di
                              courseone.html
                              init_.py
                       admin.py
                       apps.py
                       models.py
                       ests.py
                       wrls.py
                       views.py
 > fees

✓ ■ geekyshows

         > __pycache__
                      init_.py
                       asgi.py
                       ettings.py
                      e urls.py
                       wsgi.py
∨ ∰ CSS
                              style.css

√ images

                            love.jpg
5 home.html
                db.sqlite3
                 🌏 manage.py
```