

DJANGO

How to Install Django on Ubuntu 18.04

Step 1 – Installing Python and Pip:

Update:

```
$sudo apt-get update
```

Check the version:

```
$ python3 -V
```

Install pip:

```
$sudo apt-get install python3-pip
```

Check the pip version:

```
$pip3 -V
```

Step 2 : Installing Django

Install django:

```
$pip3 install Django
```

Check the version:

```
$django-admin --version
```

Step 3 : Create A Django Application

```
$django-admin startproject School
```

Go to the path and migrate the changes:

```
$cd School
```

```
$python3 manage.py migrate
```

Step 4 : Creating a Super User for Django Application

```
$python3 manage.py createsuperuser
```

How to connecting PostgreSQL with a Django application

1.Create Database

```
$sudo -u postgres psql
```

```
$Postgres=# CREATE DATABASE blctrainingdb;
```

2. Create User for Database

```
$Postgres=# CREATE USER blctraining WITH PASSWORD '123456';
```

```
$Postgres=# ALTER ROLE blctraining SET client_encoding TO 'utf8';
```

```
$Postgres=# ALTER ROLE blctraining SET default_transaction_isolation TO 'read  
committed';
```

```
$Postgres=# ALTER ROLE blctraining SET timezone TO 'UTC';
```

```
$Postgres=# GRANT ALL PRIVILEGES ON DATABASE blctraining db TO blctraining ;
```

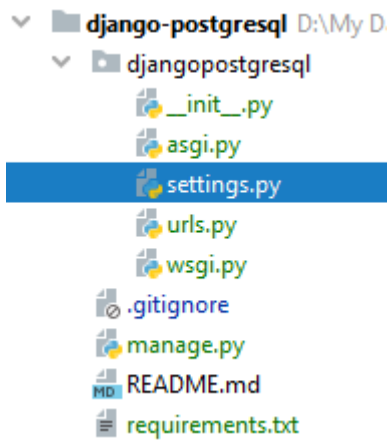
Exit the SQL prompt to return to the postgres user shell session:

```
$Postgres=# \q
```

To connect to the PostgreSQL database server in the Django Project, use the psycopg database adapter:

```
$(django-postgresql) $ pip install django psycopg2
```

3. Configure the Django Database Settings



```
DATABASES =
{
    'default': {
        'ENGINE':
'django.db.backends.postgresql_psycopg2',
        'NAME': 'blctrainingdb',
        'USER': 'blctraining',
        'PASSWORD': '123456',
        'HOST': 'localhost',
        'PORT': '5432',
    }
}
```

4. Migrate Database and Test Project

```
$(django-postgresql) $ python manage.py makemigrations
```

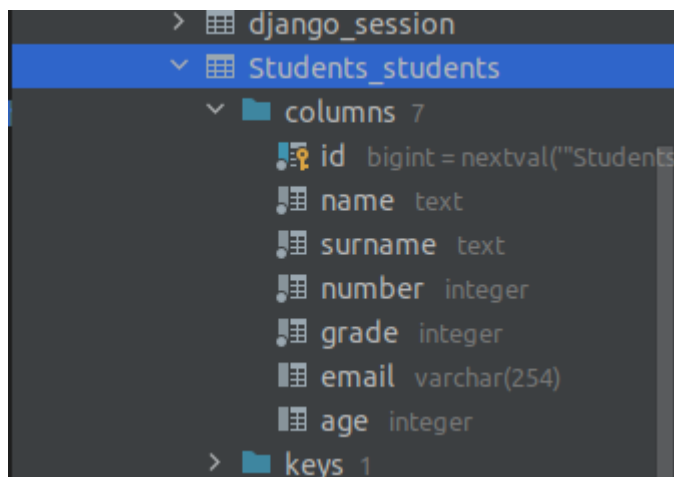
```
$(django-postgresql) $ python manage.py migrate
```

```
$(djangopostgresql) $ python manage.py createsuperuser
```

```
$(djangopostgresql) $ python manage.py runserver
```

Add Model

```
class Students(models.Model):  
    name = models.TextField(max_length=10)  
    surname = models.TextField(max_length=10)  
    email = models.EmailField(null=True)  
    age = models.IntegerField(null=True)  
    number = models.IntegerField()  
    grade = models.IntegerField()
```



Urls.py

```
from django.urls import path
from . import views

urlpatterns = [
    path('', views.listStudents),
]
```

Views.py

```
from django.shortcuts import render
from . import models

# Create your views here
def listStudents(request):
    models.Students.objects.create(name="test", surname="test" , email =... )
    return render(request, 'list.html', {'data_students':
models.Students.objects.all() })
```

https://github.com/gizempesen/btc_training/tree/main/School

<https://www.e2enetworks.com/help/knowledge-base/how-to-install-django-on-ubuntu-18-04-16-04-lts/>

<https://medium.com/@rudipy/how-to-connecting-postgresql-with-a-django-application-f479dc949a11>