

# **Proyecto 1 Django**

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**Análisis y desarrollo de software**

**Ibagué**

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# Instructivo 1

## 1. Creación del entorno:

```
MARIA PAULA@DESKTOP-DFV6IJ8 MINGW64 ~/Desktop/Proyecto Django
$ python -m venv env
```

## 2. Activación del entorno:

```
MARIA PAULA@DESKTOP-DFV6IJ8 MINGW64 ~/Desktop/Proyecto Django
$ source env/Scripts/activate
(env)
```

## 3. Instalación de Django:

```
MARIA PAULA@DESKTOP-DFV6IJ8 MINGW64 ~/Desktop/Proyecto Django
$ pip install django
Collecting django
  Obtaining dependency information for django from https://files.pythonhosted.org/packages/2d/6d/e87236e3c7b2f5911d132034177aebb605f3953910cc429df8061b13bf10/Django-4.2.7-py3-none-any.whl.metadata
  Using cached Django-4.2.7-py3-none-any.whl.metadata (4.1 kB)
Collecting asgiref<4,>=3.6.0 (from django)
  Obtaining dependency information for asgiref<4,>=3.6.0 from https://files.pythonhosted.org/packages/9b/80/b9051a4a07ad231558fcd8ffc89232711b4e618c15cb7a392a17384bbeef/asgiref-3.7.2-py3-none-any.whl.metadata
  Using cached asgiref-3.7.2-py3-none-any.whl.metadata (9.2 kB)
Collecting sqlparse>=0.3.1 (from django)
  Using cached sqlparse-0.4.4-py3-none-any.whl (41 kB)
Collecting tzdata (from django)
  Using cached tzdata-2023.3-py2.py3-none-any.whl (341 kB)
Using cached Django-4.2.7-py3-none-any.whl (8.0 MB)
Using cached asgiref-3.7.2-py3-none-any.whl (24 kB)
Installing collected packages: tzdata, sqlparse, asgiref, django
Successfully installed asgiref-3.7.2 django-4.2.7 sqlparse-0.4.4 tzdata-2023.3

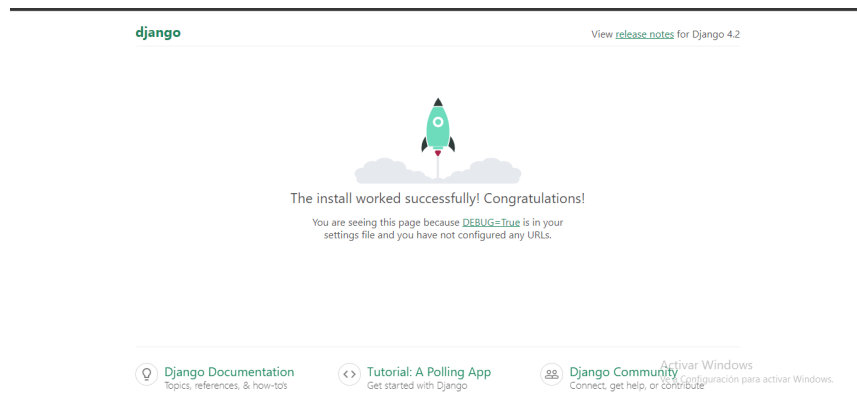
[notice] A new release of pip is available: 23.2.1 -> 23.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip
(env)
```

## 4. Inicialización del proyecto:

```
MARIA PAULA@DESKTOP-DFV6IJ8 MINGW64 ~/Desktop/Proyecto Django
$ django-admin startproject tareas .
(env)
```

## 5. Inicialización del servidor:

```
BAAPRCLLFSP335+SENA@IBAAPRCLLFSP335 MINGW64 ~/Desktop/ProyectoPythonDjango
python manage.py runserver
atching for file changes with StatReloader
erforming system checks...
```



## 6. Creación de la app:

```
runserver
● (env) PS C:\Users\SENA\Desktop\ProyectoPythonDjango> python manage.py startapp todo
○ (env) PS C:\Users\SENA\Desktop\ProyectoPythonDjango> 
```

- Se añade la app a las apps instaladas en la configuración
- Se añade la ruta de la app en el archivo de urls
- Se crea el archivo de rutas en la carpeta de la app, y se importa la ruta de la db
- Se crea el modelo tarea en models.py

## 7. migración del contenido:

```
No changes detected python manage.py makemigrations
Migrations for 'todo':\Desktop\ProyectoPythonDjango>
  todo\migrations\0001_initial.py
    - Create model Tarea
● (env) PS C:\Users\SENA\Desktop\ProyectoPythonDjango> python manage.py migrate
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, sessions, todo
Running migrations:
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying admin.0001_initial... OK
  Applying admin.0002_logentry_remove_auto_add... OK
  Applying admin.0003_logentry_add_action_flag_choices... 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 auth.0009_alter_user_last_name_max_length... OK
  Applying auth.0010_alter_group_name_max_length... OK
  Applying auth.0011_update_proxy_permissions... OK
  Applying auth.0012_alter_user_first_name_max_length... OK
  Applying sessions.0001_initial... OK
  Applying todo.0001_initial... OK
○ (env) PS C:\Users\SENA\Desktop\ProyectoPythonDjango> 
```

## Instructivo 2

1. Se crea el super usuario

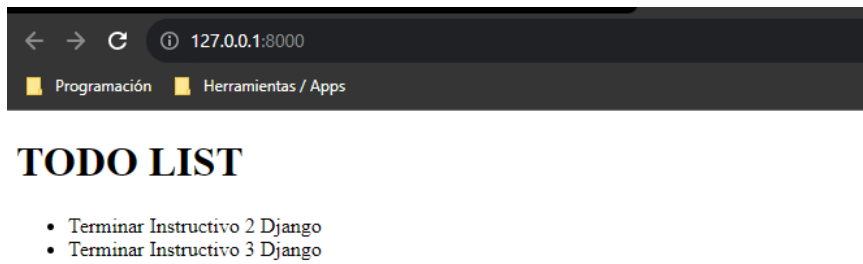
```
PS C:\Users\MARIA PAULA\Desktop\ProyectoDjango> python manage.py createsuperuser
Username (leave blank to use 'mariapaula'):
Email address: mariapbuenaventura@gmail.com
Password:
Password (again):
This password is too short. It must contain at least 8 characters.
This password is too common.
This password is entirely numeric.
Bypass password validation and create user anyway? [y/N]: y
Superuser created successfully.
```

2. Se corre el servidor y se entra en el gestor de bases de datos:
3. Se registra el modelo tareas en admin.py
4. Se crean tareas en la db

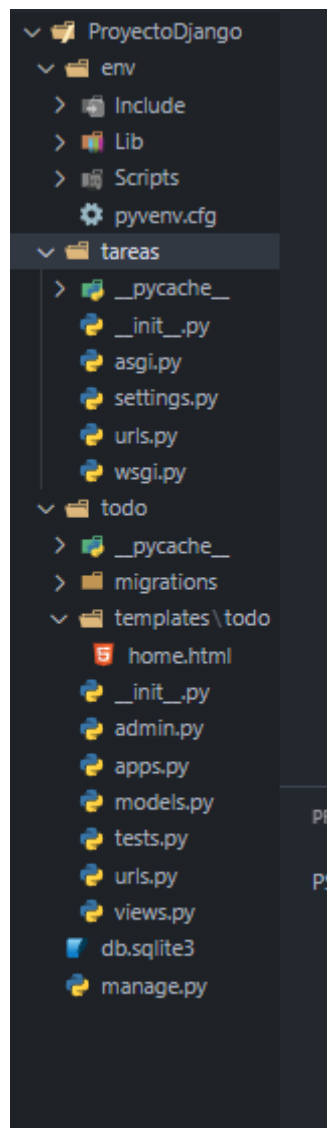
## Instructivo 3

1. Se crea la vista de home en views.py
2. Se añade la url de home en urls.py
3. Se crea la carpeta templates en la carpeta todo
4. Se crea la subcarpeta todo, y dentro de esta se crea home.html
5. Se modifica el html
6. Se modifica la url de home.html
7. Se añade un ciclo en el html el cual retorna todas las tareas que se hayan creado en la DB

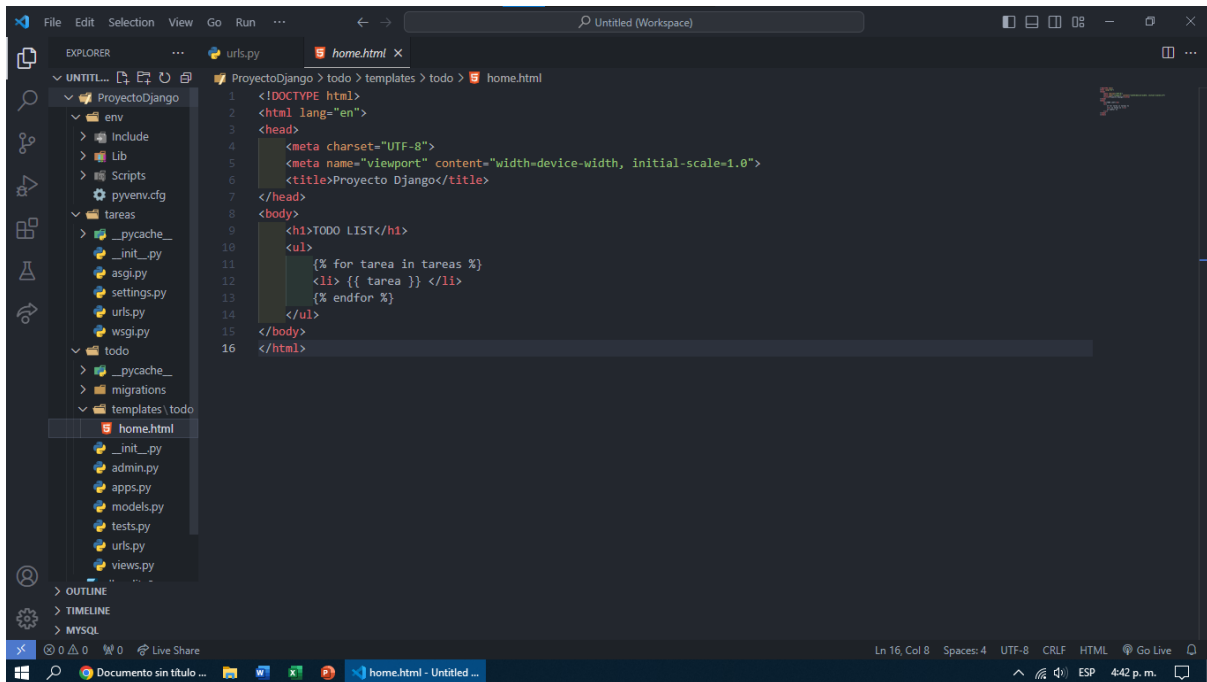
8. Se visualiza el resultado del template (home.html)



## Estructura del proyecto



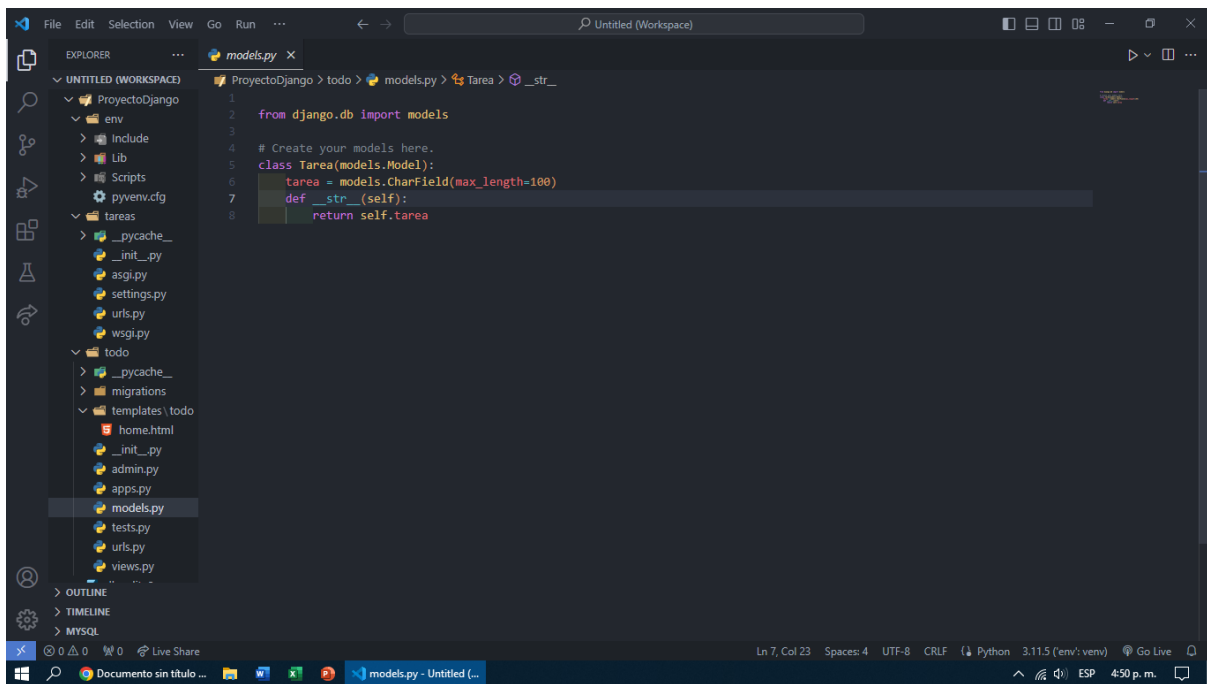
# Codigo fuente



The screenshot shows the Visual Studio Code editor with a Django project named 'ProyectoDjango'. The Explorer sidebar on the left shows the project structure, with 'home.html' selected under 'templates > todo'. The main editor displays the content of 'home.html'.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Proyecto Django</title>
7 </head>
8 <body>
9   <h1>TODO LIST</h1>
10  <ul>
11    {% for tarea in tareas %}
12    <li> {{ tarea }} </li>
13    {% endfor %}
14  </ul>
15 </body>
16 </html>
```

The status bar at the bottom indicates the cursor is at line 16, column 8, with 4 spaces. The encoding is UTF-8, line endings are CRLF, and the file type is HTML. The time is 4:42 p.m.



The screenshot shows the Visual Studio Code editor with the same Django project. The Explorer sidebar shows 'models.py' selected under 'todo'. The main editor displays the content of 'models.py'.

```
1 from django.db import models
2
3 # Create your models here.
4 class Tarea(models.Model):
5     tarea = models.CharField(max_length=100)
6     def __str__(self):
7         return self.tarea
```

The status bar at the bottom indicates the cursor is at line 7, column 23, with 4 spaces. The encoding is UTF-8, line endings are CRLF, and the file type is Python. The time is 4:50 p.m.

```
urls.py ×
ProyectoDjango > todo > urls.py > ...
1
2 from django.contrib import admin
3 from django.urls import path, include
4 from todo import views
5
6 urlpatterns = [
7     path('admin/', admin.site.urls),
8     path('', views.home, name="home"),
9 ]
```

```
views.py ×
ProyectoDjango > todo > views.py > home
1 from django.shortcuts import render
2 from .models import Tarea
3
4 # Create your views here.
5 def home(request):
6     tareas = Tarea.objects.all()
7     context = {'tareas':tareas}
8     return render(request, 'todo/home.html', context)
```