

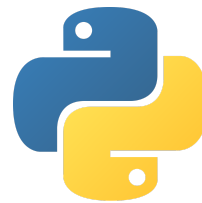
Documentación Django



PREPARACIÓN PROYECTO PASSGENERATOR

INSTALACIÓN DE LIBRERÍAS

- `pip install virtualenv` -> instalación de virtualenv
- `pip install django` -> instalación de django



COMANDOS ENTORNO

- `python | python3 -m venv "x"`
- `./x/bin/activate` -> De esta manera entramos al entorno desde linux/wsl
- `.\x\Scripts\Activate.ps1` -> Así desde windows

COMANDOS DJANGO

- `django-admin startproject "x"` -> Creamos proyecto con "x" como nombre
- `python3 manage.py startapp "nombreapp"` -> Creamos app con "x" como nombre
- `python3 manage.py runserver` -> Lanzar el servidor
- `python manage.py makemigrations` -> Realizamos migraciones después de hacer cambios en models.py
- `python manage.py migrate` -> Confirmamos esas migraciones
- `python manage.py createsuperuser` -> Creamos un superusuario para poder acceder a admin

LECCIÓN 1 > CREACIÓN DE PRIMERA PÁGINA

PRIMERA PÁGINA EN DJANGO



Descarga de virtualenv -> `pip install virtualenv`

Creación de entorno -> `python3 -m venv entornoclase`

Entrar en el entorno -> `./entornoclase/bin/activate`

Instalación de django -> `pip install django`

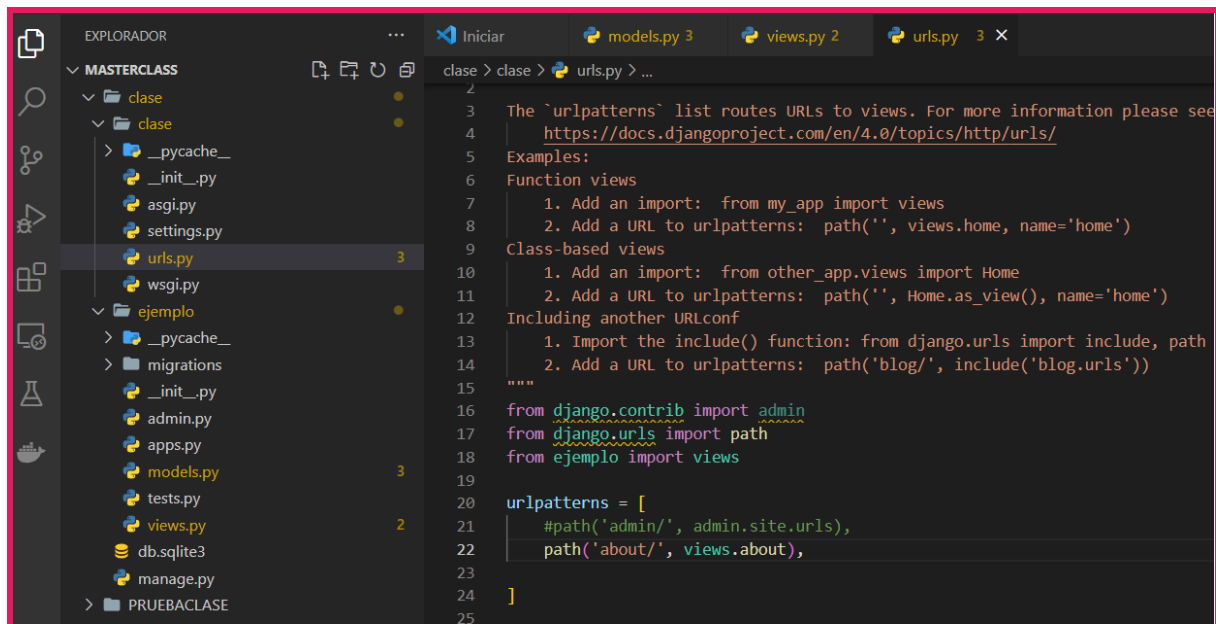
Creación de proyecto -> `django-admin startproject generatePass`

Creación de app -> `python3 manage.py startapp generador`

Despliegue de servidor -> `python3 manage.py runserver`

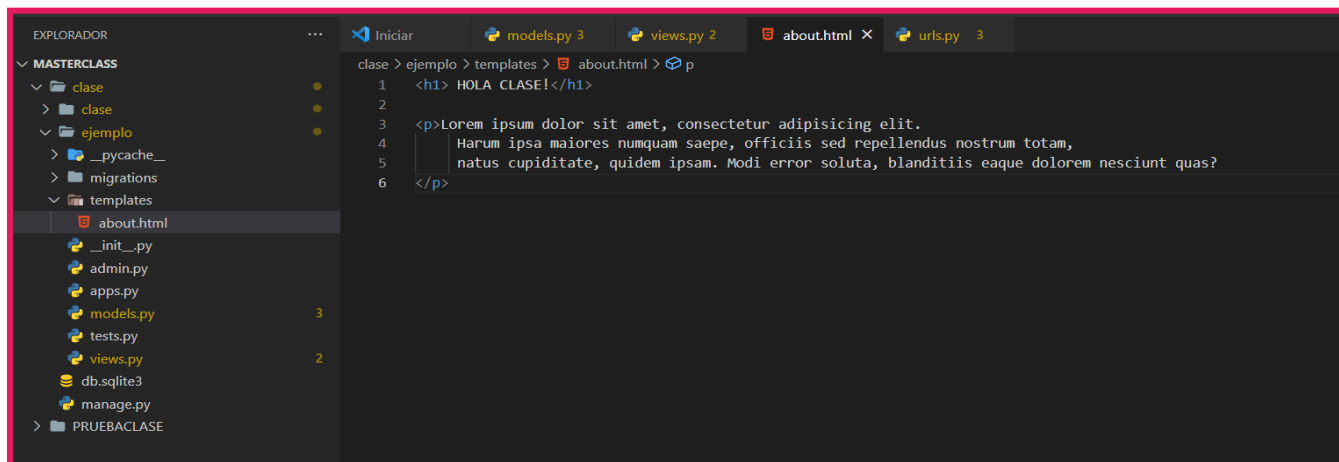


```
class > ejemplo > views.py > about
1  from django.shortcuts import render
2  from django.http import HttpResponse
3  # Create your views here.
4
5  def about(request):
6      return HttpResponse('<h1>Hello World</h1>')
```

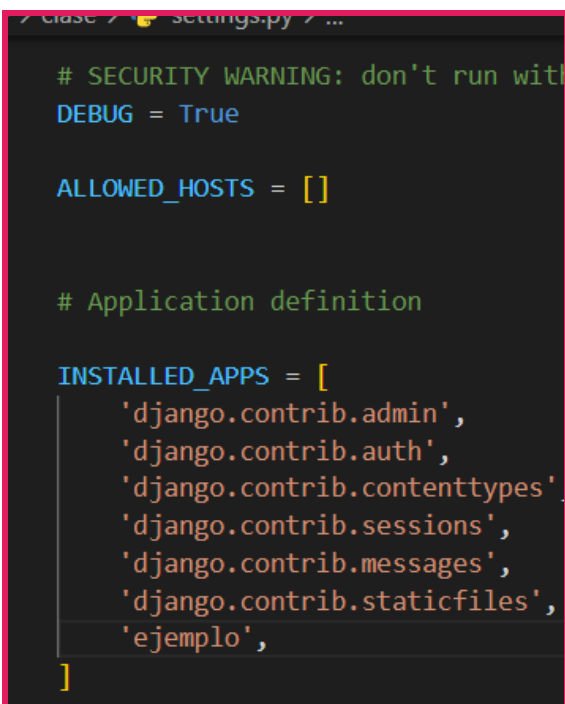


Después de añadir eso en views.py, y urls.py de vuestro proyecto, lanzais el servidor y veréis vuestra página

LECCIÓN 2 > CREACIÓN DE VARIAS PÁGINAS



```
class > ejemplo > templates > about.html > p
1 <h1> HOLA CLASE!</h1>
2
3 <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit.
4   Harum ipsa maiores numquam saepe, officiis sed repellendus nostrum totam,
5   natus cupiditate, quidem ipsam. Modi error soluta, blanditiis eaque dolore nesciunt quas?
6 </p>
```

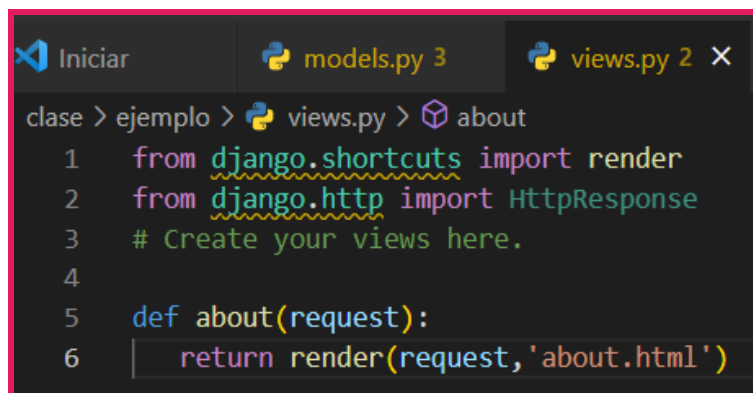


```
# SECURITY WARNING: don't run with
DEBUG = True

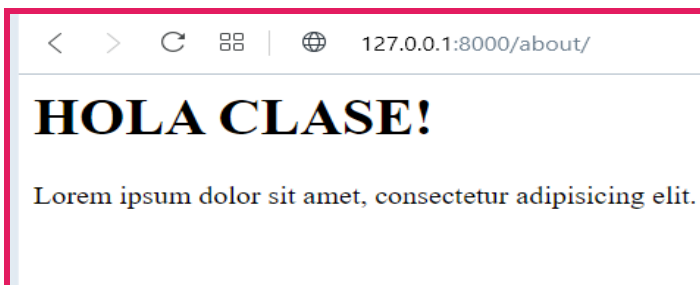
ALLOWED_HOSTS = []

# Application definition

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



```
class > ejemplo > views.py > about
1 from django.shortcuts import render
2 from django.http import HttpResponse
3 # Create your views here.
4
5 def about(request):
6     return render(request, 'about.html')
```



LECCIÓN 3 > GENERADOR DE CONTRASEÑAS

```
views.py 2 db.sqlite3 password.html home.html X sett
class > ejemplo > templates > generator > home.html > form > select#length >
1 <h1>Password Generator</h1>
2 <!-- Password Length -->
3
4 <form action="{% url 'password' %}">
5   <label for="length">Select the length of your password:</label>
6   <select name="length" id="length">
7     <option value="6">6 characters</option>
8     <option value="7">7 characters</option>
9     <option value="8">8 characters</option>
10    <option value="9">9 characters</option>
11    <option value="10">10 characters</option>
12    <option value="11">11 characters</option>
13    <option value="12">12 characters</option>
14    <option value="13">13 characters</option>
15    <option value="14">14 characters</option>
16  </select>
17
18
19  <label for="uppercase">Include uppercase letters?</label>
20  <input type="checkbox" name="uppercase" id="uppercase">
21
22  <label for="characters">Include special characters?</label>
23  <input type="checkbox" name="characters" id="characters">
24
25  <label for="numbers">Include numbers?</label>
26  <input type="checkbox" name="numbers" id="numbers">
27
28  <button>Generate Password</button>
29 </form>
```

```
from django.contrib import admin
from django.urls import path
from ejemplo import views

urlpatterns = [
    #path('admin/', admin.site.urls),
    path('about/', views.about),
    path('', views.home),
    path('generate-password/', views.password, name='password'),
]
```

```
views.py 2 db.sqlite3 password.html X
class > ejemplo > templates > generator > password.html > ..
1 <h1>Tu password es...</h1>
2
3 {{password}}
```

```
from django.shortcuts import render
from django.http import HttpResponse
import random
# Create your views here.

def about(request):
    return render(request, 'generator/about.html')

def home(request):
    return render(request, 'generator/home.html')

def password(request):
    characters = list('abcdefghijklmnopqrstuvwxyz')
    generated_password = ''
    longitud = int(request.GET.get('length'))

    if request.GET.get('uppercase'):
        characters.extend(list('ABCDEFGHIJKLMNOPQRSTUVWXYZ'))

    if request.GET.get('characters'):
        characters.extend(list('!@#$%^&*()'))

    if request.GET.get('numbers'):
        characters.extend(list('0123456789'))

    for x in range(longitud):
        generated_password += random.choice(characters)

    return render(request, 'generator/password.html', {'password': generated_password})
```

LECCIÓN 4 > BASE DE DATOS

```
models.py 2 | password.html | home.html | urls.py 3 | models.py 3 X
> ejemplo > models.py > UserCreado
from django.db import models
from django.contrib.auth.models import User
# Create your models here.

# Create your models here.
class UserCreado(models.Model):
    username = models.CharField(max_length=100,null=True)
    email = models.EmailField(max_length=100,null=True)
    password = models.CharField(max_length=100,null=True)

views.py 2 | password.html | home.html
class > ejemplo > admin.py
1 from django.contrib import admin
2 from .models import UserCreado
3
4 admin.site.register(UserCreado)
```

**python manage.py
makemigrations**

**python manage.py
migrate**

**python manage.py
createsuperuser**

```
views.py 2 | password.html | home.html X | urls.py 3 | models.py
class > ejemplo > templates > generator > home.html > form
1 <h1>Password Generator</h1>
2 <!-- Password Length -->
3
4 <form action="{% url 'password' %}">
5
6     <label for="name">Nombre</label>
7     <input type="text" name="name" id="name">
8     <br>
9     <label for="correo">Correo</label>
10    <input type="text" name="correo" id="correo">
11    <br>
12    <label for="length">Select the length of your password:</label>
13    <select name="length" id="length">
```

```
19
20 urlpatterns = [
21     path('admin/', admin.site.urls),
22     path('about/', views.about),
23     path('', views.home),
24     path('generate-password/', views.password, name='password'),
25
26 ]
27
```



```
for x in range(longitud):
    generated_password += random.choice(characters)

nombre = request.GET.get('name')
email = request.GET.get('correo')
print(nombre)
print(email)

UserCreado.objects.create(
    username=nombre,
    email=email,
    password=generated_password,
)
```