

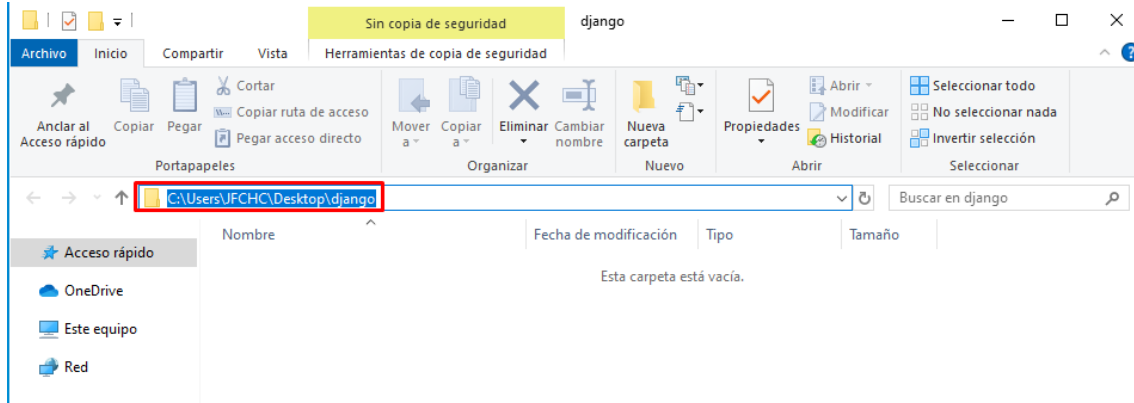
### Paso 1: crear carpeta

En su amigo el escritorio crear una carpeta llamada **django**



### Paso 2: doble clic en la carpeta

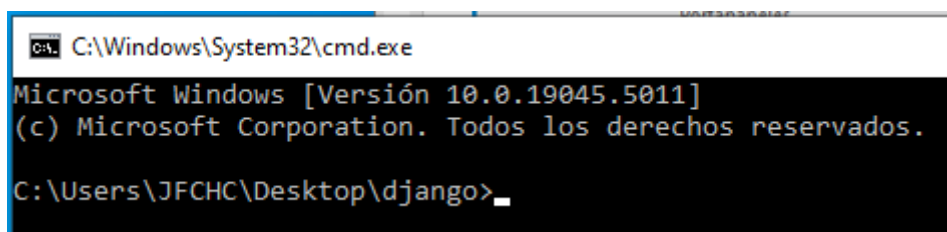
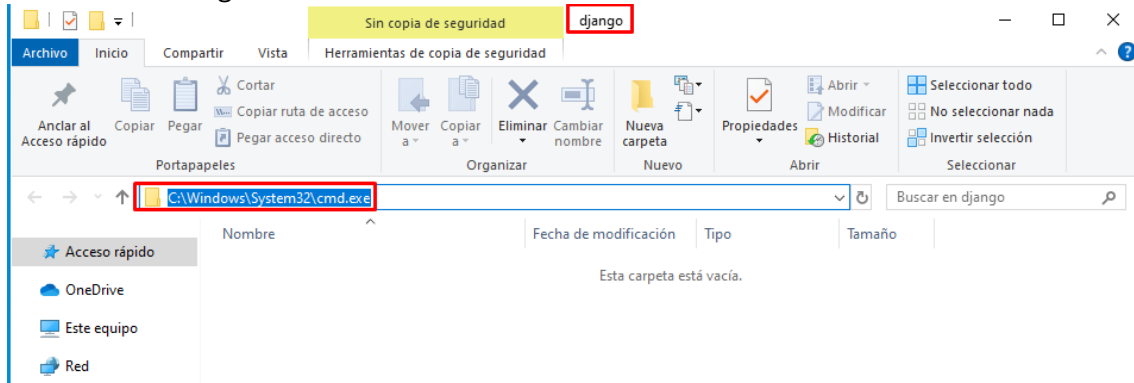
Seleccionar el directorio de la carpeta



### Paso 3: como acceder a la consola de Windows

En la carpeta django

Colocar cmd luego enter



#### Paso 4: Instalar el entorno virtual de python

Luego crear entorno virtual con el siguiente comando

```
python -m venv venv
```

```
venv\Scripts\activate
```

```
pip list
```

```
C:\Windows\System32\cmd.exe

Microsoft Windows [Versión 10.0.19045.5011]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\JFCHC\Desktop\django>python -m venv venv

C:\Users\JFCHC\Desktop\django>venv\Scripts\activate

(venv) C:\Users\JFCHC\Desktop\django>pip list
Package      Version
-----
pip           23.1.2
setuptools    65.5.0

[notice] A new release of pip is available: 23.1.2 -> 24.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

(venv) C:\Users\JFCHC\Desktop\django>
```

#### Paso 5: instalar django

A través del comando

```
pip install django
```

```
C:\Windows\System32\cmd.exe

C:\Users\JFCHC\Desktop\django>python -m venv venv

C:\Users\JFCHC\Desktop\django>venv\Scripts\activate

(venv) C:\Users\JFCHC\Desktop\django>pip list
Package      Version
-----
pip           23.1.2
setuptools    65.5.0

[notice] A new release of pip is available: 23.1.2 -> 24.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

(venv) C:\Users\JFCHC\Desktop\django>pip install django
Collecting django
  Using cached Django-5.1.2-py3-none-any.whl (8.3 MB)
Collecting asgiref<4,>=3.8.1 (from django)
  Using cached asgiref-3.8.1-py3-none-any.whl (23 kB)
Collecting sqlparse>=0.3.1 (from django)
  Using cached sqlparse-0.5.1-py3-none-any.whl (44 kB)
Collecting tzdata (from django)
  Downloading tzdata-2024.2-py2.py3-none-any.whl (346 kB)
----- 346.6/346.6 kB 10.8 MB/s eta 0:00:00
Installing collected packages: tzdata, sqlparse, asgiref, django
Successfully installed asgiref-3.8.1 django-5.1.2 sqlparse-0.5.1 tzdata-2024.2

[notice] A new release of pip is available: 23.1.2 -> 24.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

(venv) C:\Users\JFCHC\Desktop\django>
```

### Paso 6: ver versión

A través del comando

pip show django

```
C:\Windows\System32\cmd.exe
Successfully installed asgiref-3.8.1 django-5.1.2 sqlparse-0.5.1 tzdata-2024.2
[notice] A new release of pip is available: 23.1.2 -> 24.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

(venv) C:\Users\JFCHC\Desktop\django>pip show django
Name: Django
Version: 5.1.2
Summary: A high-level Python web framework that encourages rapid development and clean, pragmatic design.
Home-page:
Author:
Author-email: Django Software Foundation <foundation@djangoproject.com>
License: BSD-3-Clause
Location: C:\Users\JFCHC\Desktop\django\venv\Lib\site-packages
Requires: asgiref, sqlparse, tzdata
Required-by:

(venv) C:\Users\JFCHC\Desktop\django>
```

### Paso 7: crear proyecto en django

A través del comando

python -m django startproject empresa

```
C:\Windows\System32\cmd.exe
Successfully installed asgiref-3.8.1 django-5.1.2 sqlparse-0.5.1 tzdata-2024.2
[notice] A new release of pip is available: 23.1.2 -> 24.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

(venv) C:\Users\JFCHC\Desktop\django>pip show django
Name: Django
Version: 5.1.2
Summary: A high-level Python web framework that encourages rapid development and clean, pragmatic design.
Home-page:
Author:
Author-email: Django Software Foundation <foundation@djangoproject.com>
License: BSD-3-Clause
Location: C:\Users\JFCHC\Desktop\django\venv\Lib\site-packages
Requires: asgiref, sqlparse, tzdata
Required-by:

(venv) C:\Users\JFCHC\Desktop\django>python -m django startproject empresa
(venv) C:\Users\JFCHC\Desktop\django>
```

### Paso 8: cambiar de ruta a empresa

A través del comando

cd empresa

```
C:\Windows\System32\cmd.exe
Successfully installed asgiref-3.8.1 django-5.1.2 sqlparse-0.5.1 tzdata-2024.2
[notice] A new release of pip is available: 23.1.2 -> 24.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

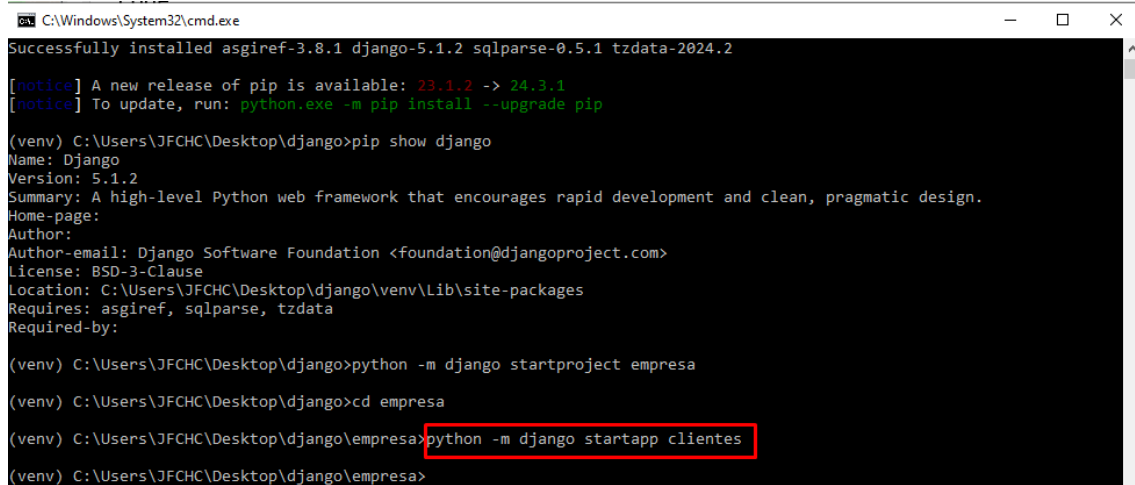
(venv) C:\Users\JFCHC\Desktop\django>pip show django
Name: Django
Version: 5.1.2
Summary: A high-level Python web framework that encourages rapid development and clean, pragmatic design.
Home-page:
Author:
Author-email: Django Software Foundation <foundation@djangoproject.com>
License: BSD-3-Clause
Location: C:\Users\JFCHC\Desktop\django\venv\Lib\site-packages
Requires: asgiref, sqlparse, tzdata
Required-by:

(venv) C:\Users\JFCHC\Desktop\django>python -m django startproject empresa
(venv) C:\Users\JFCHC\Desktop\django>cd empresa
(venv) C:\Users\JFCHC\Desktop\django\empresa>
```

## Paso 8: crear la app

A través de comando

`python -m django startapp clientes`

A terminal window titled 'C:\Windows\System32\cmd.exe' showing the successful installation of Django 5.1.2 and its dependencies. It then shows the command 'python -m django startapp clientes' being executed in a virtual environment. The command is highlighted with a red box.

```
C:\Windows\System32\cmd.exe
Successfully installed asgiref-3.8.1 django-5.1.2 sqlparse-0.5.1 tzdata-2024.2

[notice] A new release of pip is available: 23.1.2 -> 24.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

(env) C:\Users\JFCHC\Desktop\django>pip show django
Name: Django
Version: 5.1.2
Summary: A high-level Python web framework that encourages rapid development and clean, pragmatic design.
Home-page:
Author:
Author-email: Django Software Foundation <foundation@djangoproject.com>
License: BSD-3-Clause
Location: C:\Users\JFCHC\Desktop\django\venv\Lib\site-packages
Requires: asgiref, sqlparse, tzdata
Required-by:

(env) C:\Users\JFCHC\Desktop\django>python -m django startproject empresa

(env) C:\Users\JFCHC\Desktop\django>cd empresa

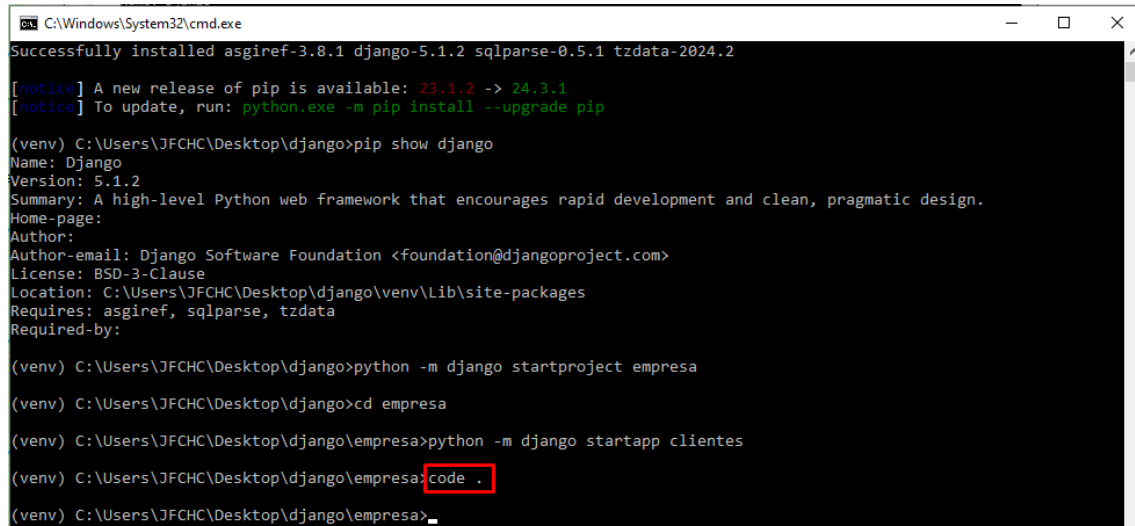
(env) C:\Users\JFCHC\Desktop\django\empresa>python -m django startapp clientes

(env) C:\Users\JFCHC\Desktop\django\empresa>
```

## paso 9: abrir visual studio code

a través del comando

`code .`

A terminal window titled 'C:\Windows\System32\cmd.exe' showing the same sequence of commands as the previous screenshot, but with the final command 'code .' highlighted by a red box.

```
C:\Windows\System32\cmd.exe
Successfully installed asgiref-3.8.1 django-5.1.2 sqlparse-0.5.1 tzdata-2024.2

[notice] A new release of pip is available: 23.1.2 -> 24.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

(env) C:\Users\JFCHC\Desktop\django>pip show django
Name: Django
Version: 5.1.2
Summary: A high-level Python web framework that encourages rapid development and clean, pragmatic design.
Home-page:
Author:
Author-email: Django Software Foundation <foundation@djangoproject.com>
License: BSD-3-Clause
Location: C:\Users\JFCHC\Desktop\django\venv\Lib\site-packages
Requires: asgiref, sqlparse, tzdata
Required-by:

(env) C:\Users\JFCHC\Desktop\django>python -m django startproject empresa

(env) C:\Users\JFCHC\Desktop\django>cd empresa

(env) C:\Users\JFCHC\Desktop\django\empresa>python -m django startapp clientes

(env) C:\Users\JFCHC\Desktop\django\empresa>code .

(env) C:\Users\JFCHC\Desktop\django\empresa>
```

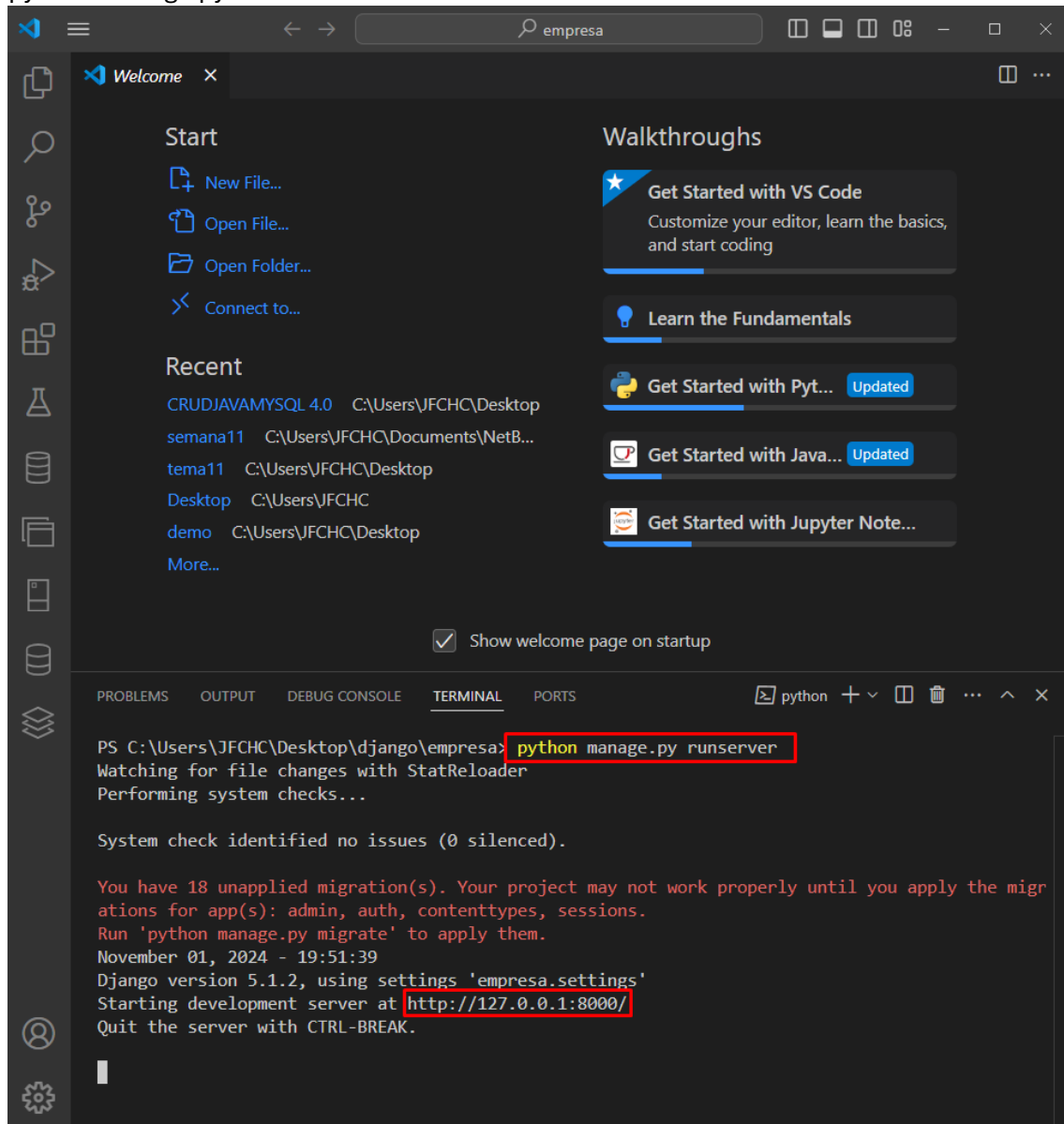
### paso 10: iniciar el proyecto en django

abrir el terminal de visual studio code a través del comando

control + ñ

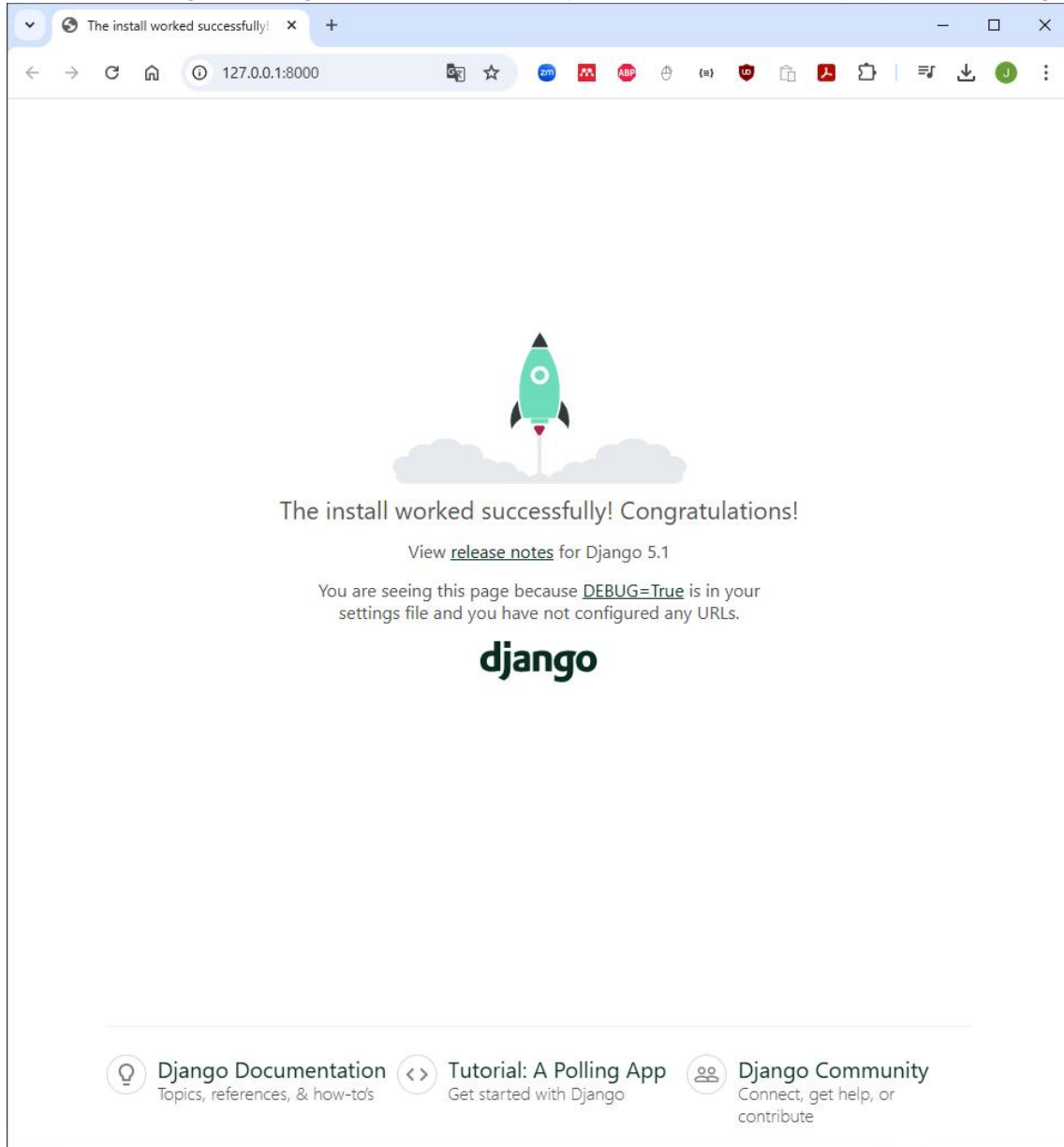
luego colocar el comando para que inicie nuestro amigo el proyecto

`python manage.py runserver`



## paso 11: pagina inicia de django

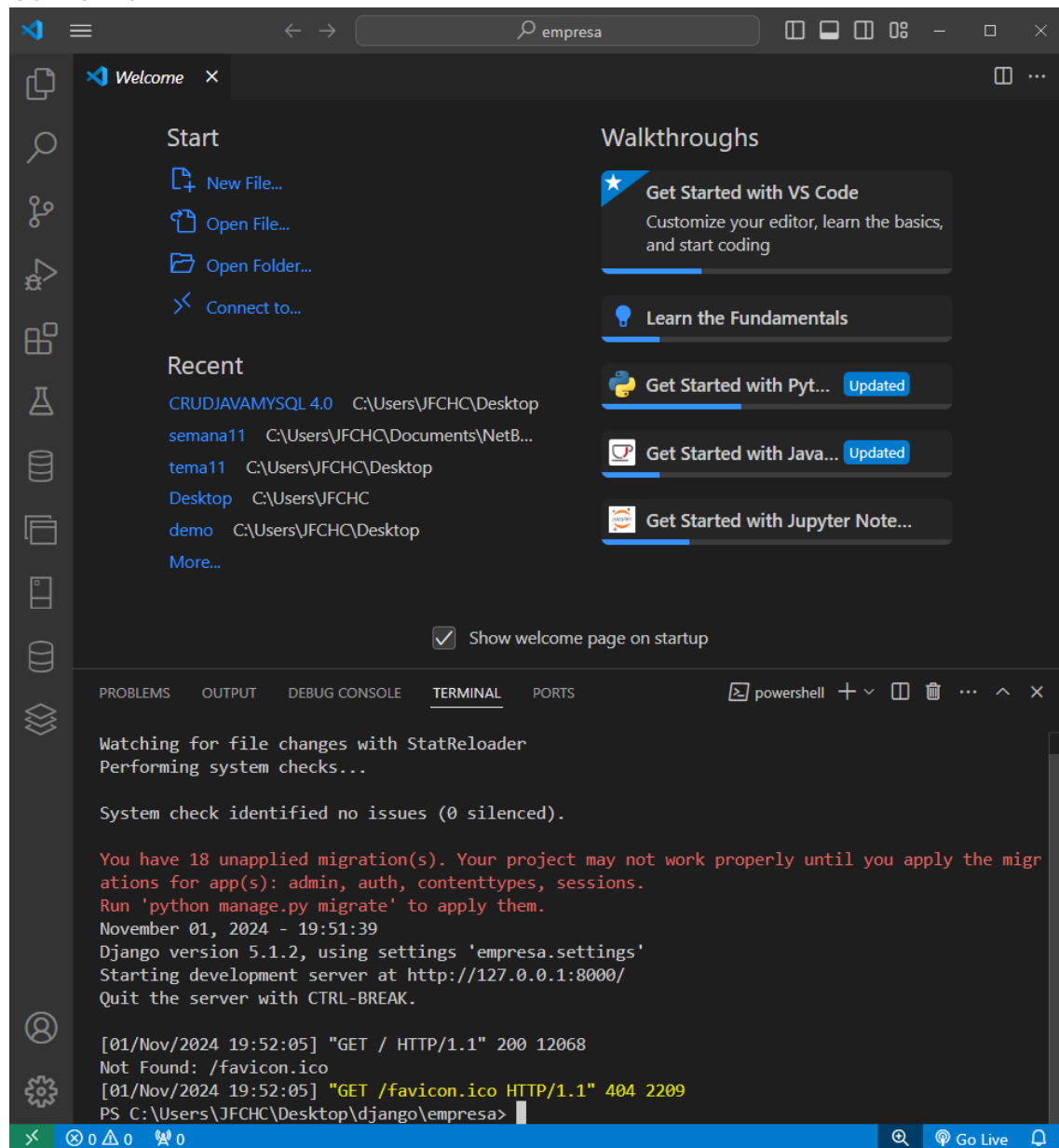
en nuestro amigo el navegador Chrome o de su preferencia se abrirá el proyecto de django



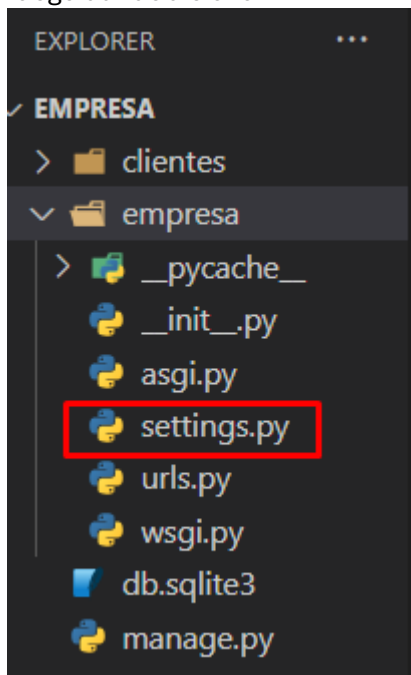
## paso 12: detener el proyecto

A través del comando

Control + c

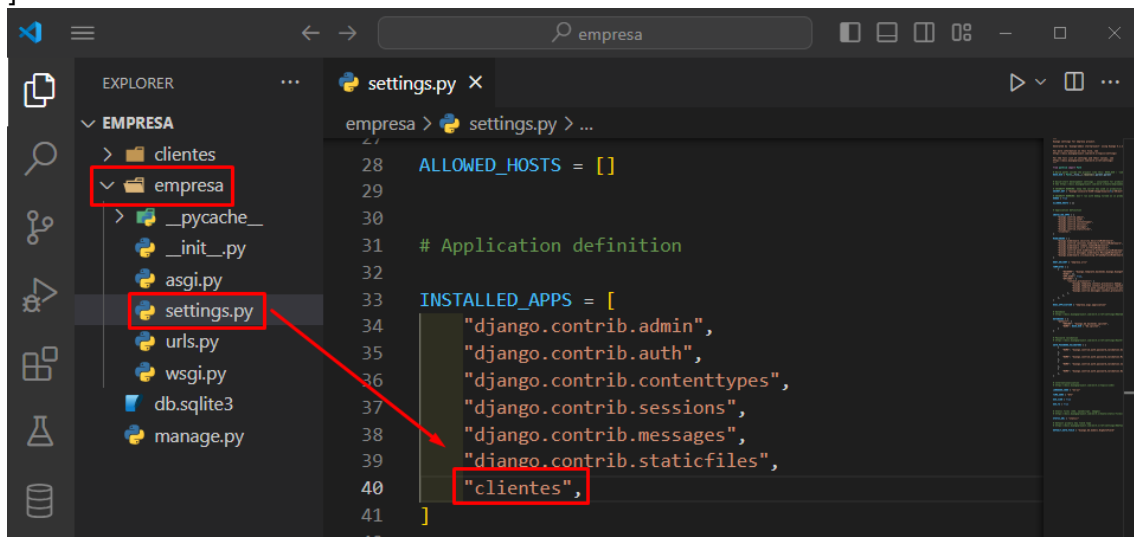


paso 13: Ubicarnos en la carpeta empresa  
luego desplegar la carpeta y ubicar el archivo  
settings.py  
luego dar doble clic



Paso 14: en la carpeta empresa en el archivo  
settings.py

ubicarnos en  
# Application definition y Añadir “clientes”,  
INSTALLED\_APPS = [  
 "django.contrib.admin",  
 "django.contrib.auth",  
 "django.contrib.contenttypes",  
 "django.contrib.sessions",  
 "django.contrib.messages",  
 "django.contrib.staticfiles",  
 "clientes",  
]

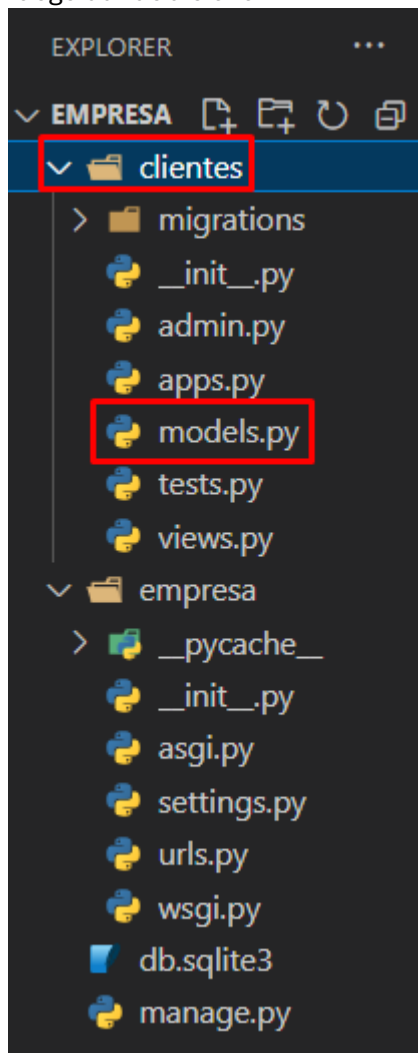




Paso 15: ubicarnos en la carpeta clientes

luego desplegar la carpeta y ubicar el archivo  
models.py

luego dar doble clic



Paso 16: en la carpeta cliente en el archivo  
models.py

ubicarnos en

# Create your models here.

from django.db import models

# Create your models here.

class Cliente(models.Model):

nombre = models.CharField(max\_length=100)

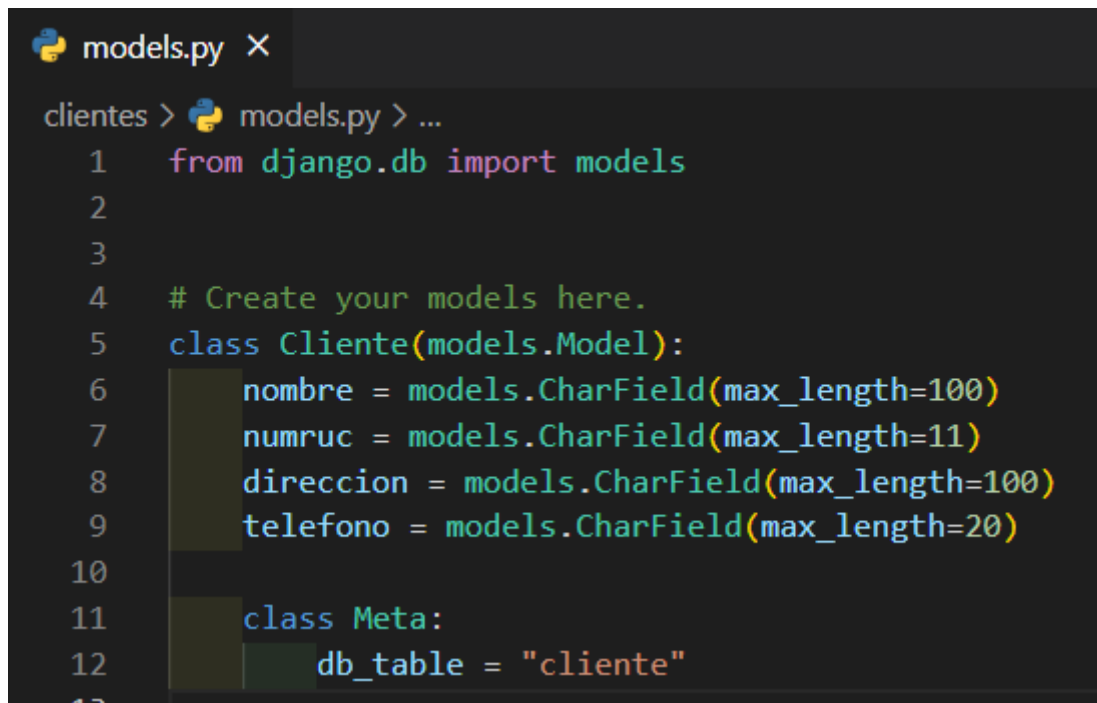
numruc = models.CharField(max\_length=11)

direccion = models.CharField(max\_length=100)

telefono = models.CharField(max\_length=20)

class Meta:

db\_table = "cliente"



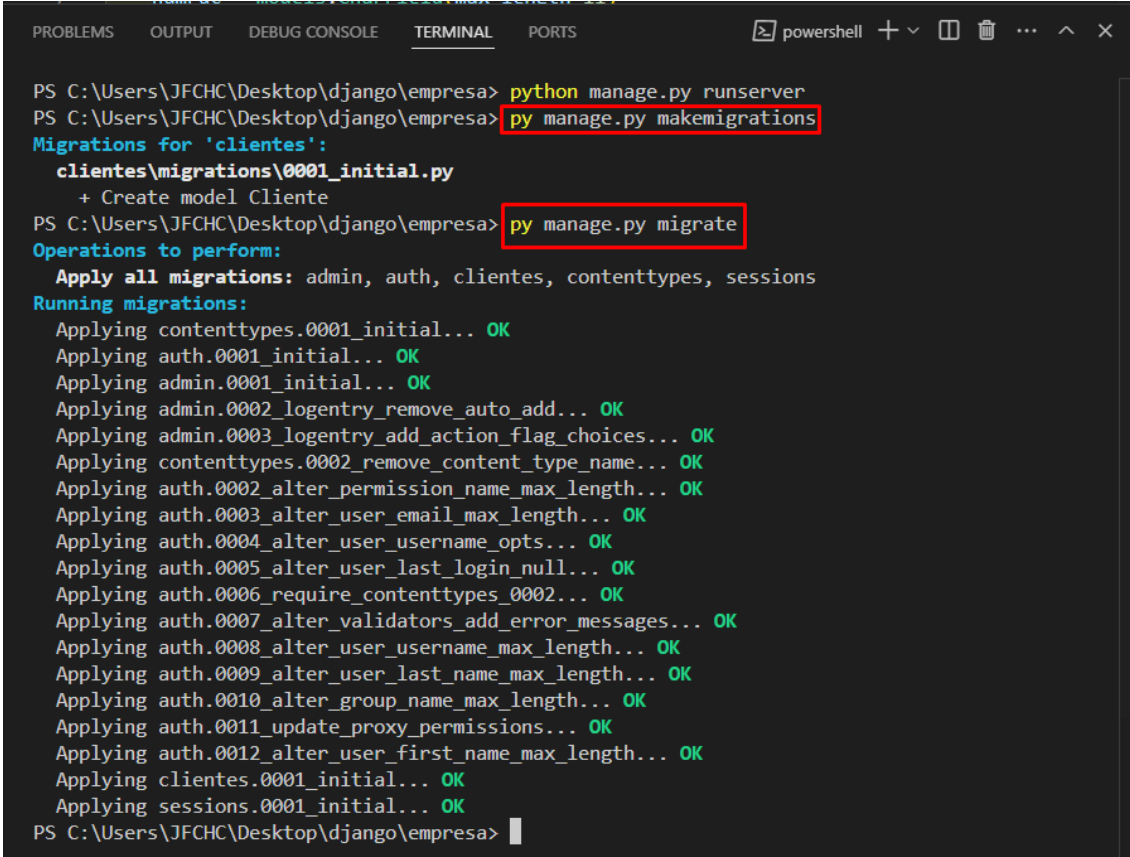
```
models.py X
clientes > models.py > ...
1  from django.db import models
2
3
4  # Create your models here.
5  class Cliente(models.Model):
6      nombre = models.CharField(max_length=100)
7      numruc = models.CharField(max_length=11)
8      direccion = models.CharField(max_length=100)
9      telefono = models.CharField(max_length=20)
10
11     class Meta:
12         db_table = "cliente"
```

### Paso 17: crear la migracion

A través del comando

python manage.py makemigrations

python manage.py migrate



```
PS C:\Users\JFCHC\Desktop\django\empresa> python manage.py runserver
PS C:\Users\JFCHC\Desktop\django\empresa> python manage.py makemigrations
Migrations for 'clientes':
  clientes\migrations\0001_initial.py
    + Create model Cliente
PS C:\Users\JFCHC\Desktop\django\empresa> python manage.py migrate
Operations to perform:
  Apply all migrations: admin, auth, clientes, contenttypes, sessions
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 clientes.0001_initial... OK
  Applying sessions.0001_initial... OK
PS C:\Users\JFCHC\Desktop\django\empresa>
```

### Paso 18: en la carpeta cliente crear un archivo

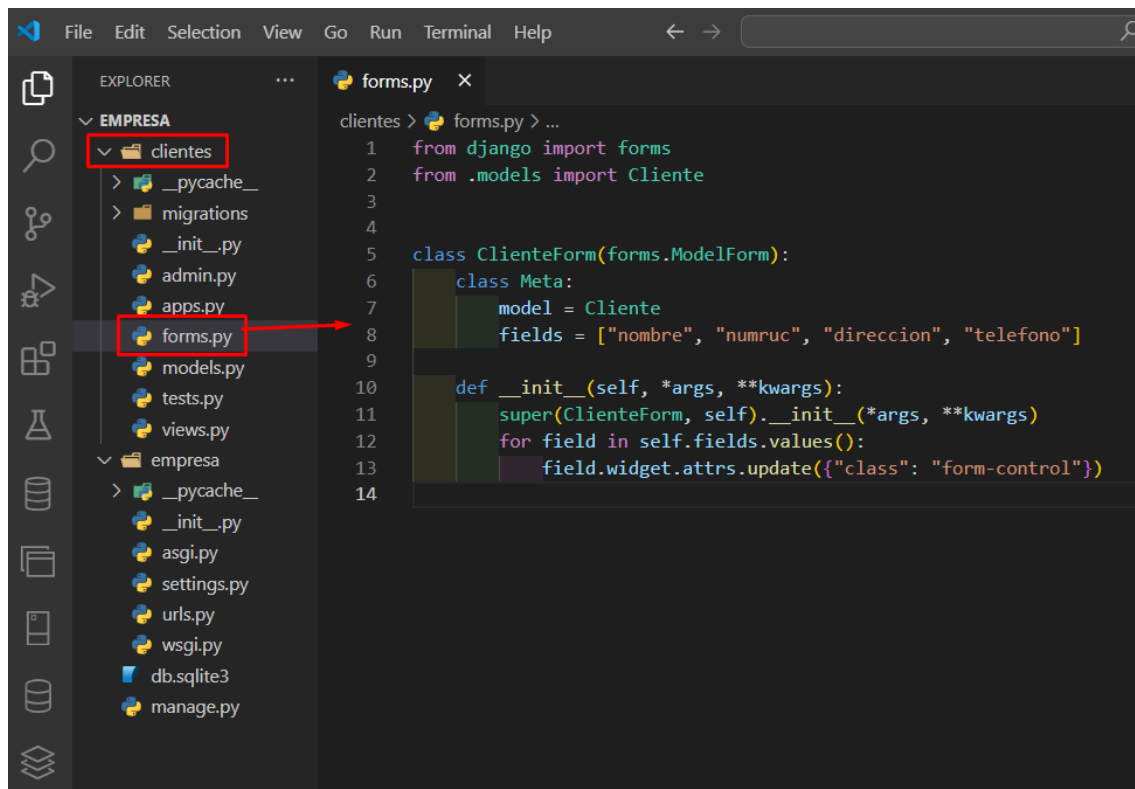
Crear el archivo

**forms.py**

```
from django import forms
from .models import Cliente
```

```
class ClienteForm(forms.ModelForm):
    class Meta:
        model = Cliente
        fields = ['nombre', 'numruc', 'direccion', 'telefono']

    def __init__(self, *args, **kwargs):
        super(ClienteForm, self).__init__(*args, **kwargs)
        for field in self.fields.values():
            field.widget.attrs.update({'class': 'form-control'})
```



### Paso 19: en la carpeta cliente ubicar el archivo

Crear el archivo

**views.py**

```
from django.shortcuts import render, redirect, get_object_or_404
from .models import Cliente
from .forms import ClienteForm
```

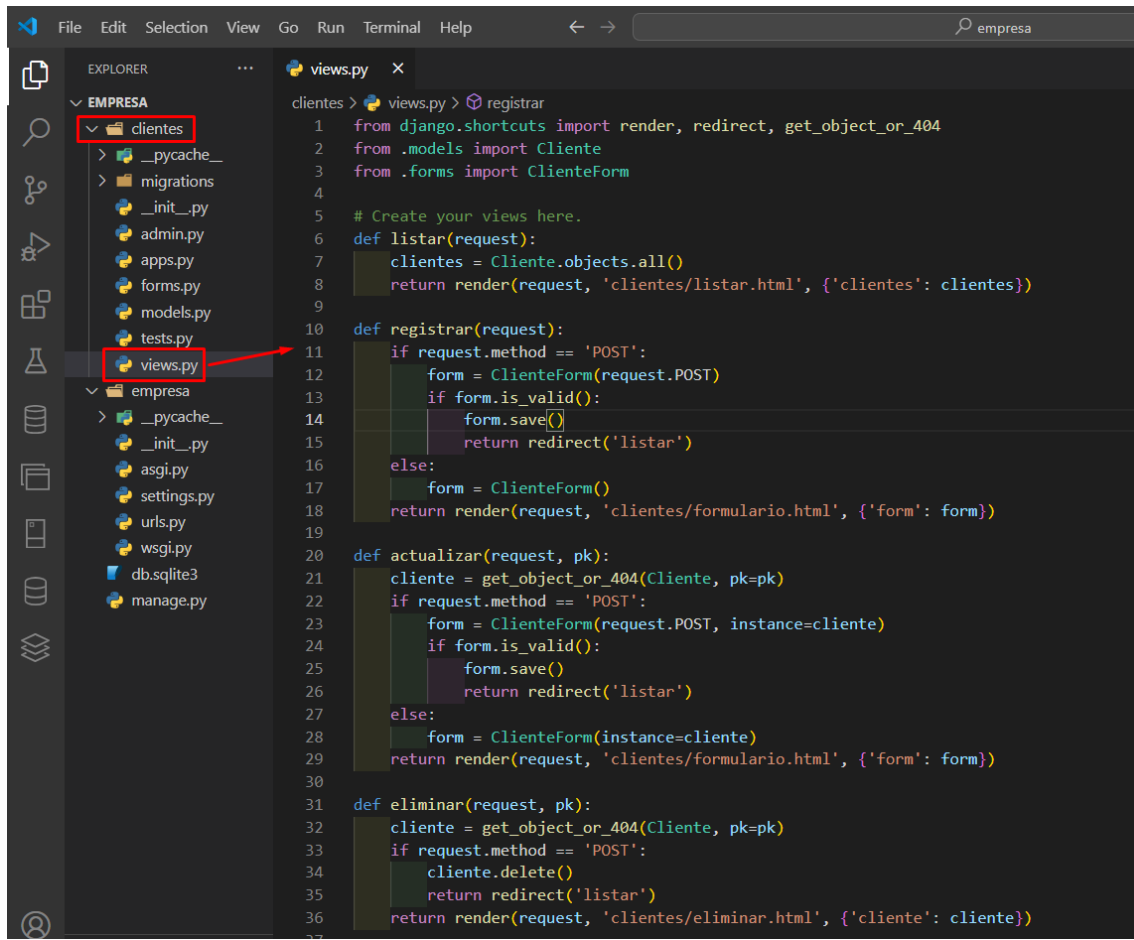
```
# Create your views here.
```

```
def listar(request):
    clientes = Cliente.objects.all()
    return render(request, 'clientes/listar.html', {'clientes': clientes})
```

```
def registrar(request):
    if request.method == 'POST':
        form = ClienteForm(request.POST)
        if form.is_valid():
            form.save()
            return redirect('listar')
    else:
        form = ClienteForm()
    return render(request, 'clientes/formulario.html', {'form': form})
```

```
def actualizar(request, pk):
    cliente = get_object_or_404(Cliente, pk=pk)
    if request.method == 'POST':
        form = ClienteForm(request.POST, instance=cliente)
        if form.is_valid():
            form.save()
            return redirect('listar')
    else:
        form = ClienteForm(instance=cliente)
    return render(request, 'clientes/formulario.html', {'form': form})
```

```
def eliminar(request, pk):
    cliente = get_object_or_404(Cliente, pk=pk)
    if request.method == 'POST':
        cliente.delete()
        return redirect('listar')
    return render(request, 'clientes/eliminar.html', {'cliente': cliente})
```



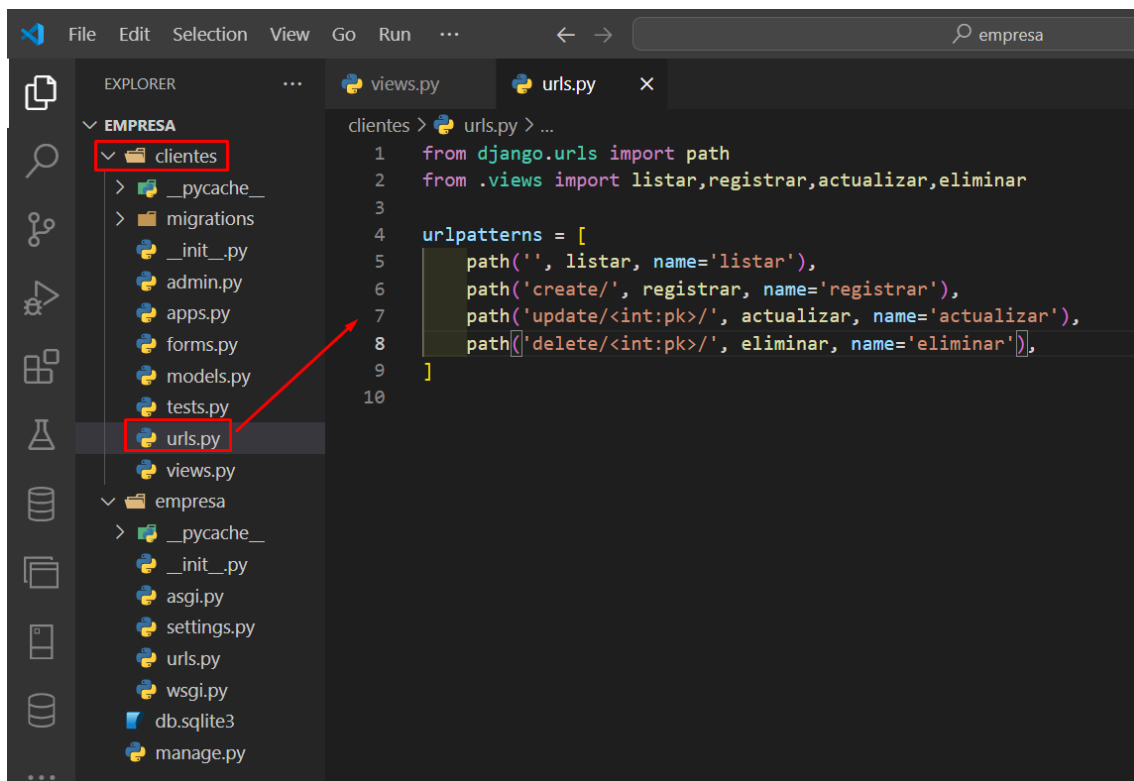
## Paso 20: en la carpeta cliente crear un archivo

Crear el archivo

**urls.py**

```
from django.urls import path
from .views import listar, registrar, actualizar, eliminar
```

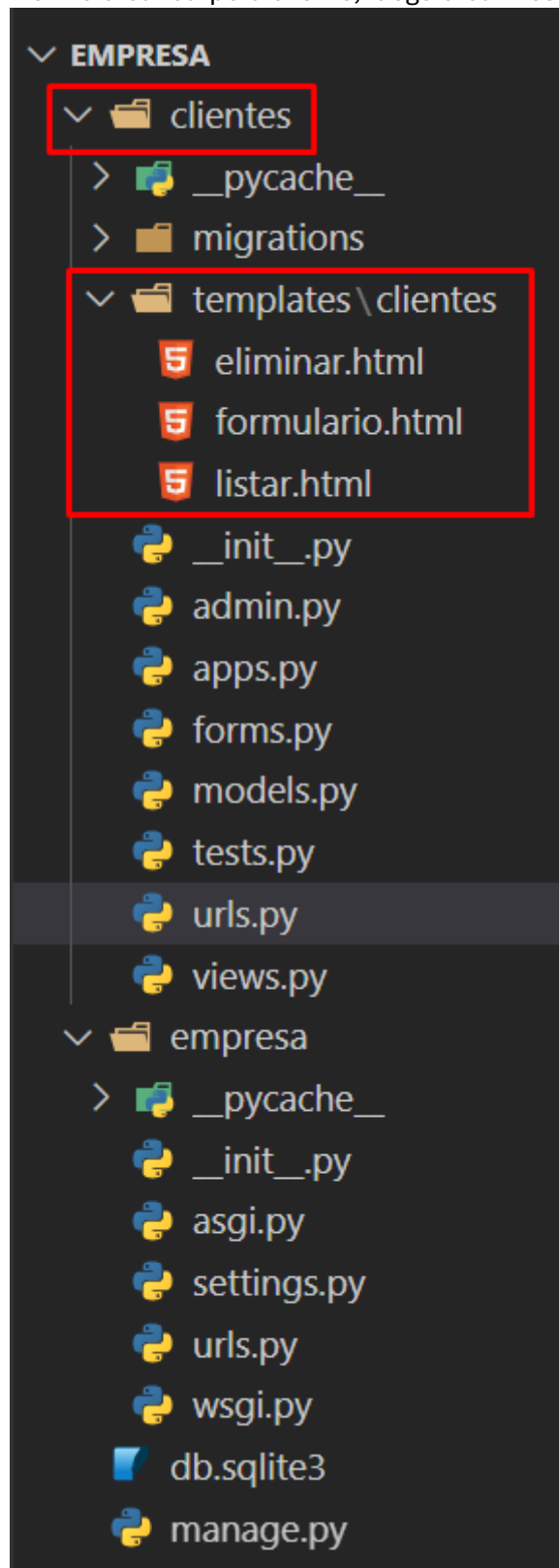
```
urlpatterns = [
    path("", listar, name='listar'),
    path('create/', registrar, name='registrar'),
    path('update/<int:pk>', actualizar, name='actualizar'),
    path('delete/<int:pk>', eliminar, name='eliminar'),
]
```



Paso 20: en la carpeta cliente crear una carpeta

Crear carpeta templates

Dentro crear carpeta cliente, luego crear tres archivos con extensión html





## Paso 21: ubicarnos en el archivo

Luego comenzar a maquetar las páginas

listar.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <title>Lista de Clientes</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet"
  integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhY6hW+ALEwIH"
crossorigin="anonymous">
</head>

<body>
  <div class="container">
    <h1>Lista de Clientes</h1>
    <a href="{% url 'registrar' %}" class="btn btn-primary">Agregar Cliente</a>
    <table class="table">
      <thead>
        <tr>
          <th>#</th>
          <th>Nombre</th>
          <th>RUC</th>
          <th>Direccion</th>
          <th>Telefono</th>
          <th></th>
          <th></th>
        </tr>
      </thead>
      <tbody>
        {% for cliente in clientes %}
        <tr>
          <td>{{ cliente.id }}</td>
          <td>{{ cliente.nombre }}</td>
          <td>{{ cliente.numruc }}</td>
          <td>{{ cliente.direccion }}</td>
          <td>{{ cliente.telefono }}</td>
          <td>
            <a href="{% url 'actualizar' cliente.pk %}" class="btn btn-warning">Editar</a>
          </td>
          <td>
            <a href="{% url 'eliminar' cliente.pk %}" class="btn btn-danger">Eliminar</a>
          </td>
        </tr>
        {% endfor %}
      </tbody>
    </table>
  </div>
```

```

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
  integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jleHz"
  crossorigin="anonymous"></script>
</body>

</html><!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <title>Lista de Clientes</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet"
  integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhY6hW+ALEwIH"
crossorigin="anonymous">
</head>

<body>
  <div class="container">
    <h1>Lista de Clientes</h1>
    <a href="{% url 'registrar' %}" class="btn btn-primary">Agregar Cliente</a>
    <table class="table">
      <thead>
        <tr>
          <th>#</th>
          <th>Nombre</th>
          <th>RUC</th>
          <th>Direccion</th>
          <th>Telefono</th>
          <th></th>
          <th></th>
        </tr>
      </thead>
      <tbody>
        {% for cliente in clientes %}
        <tr>
          <td>{{ cliente.id }}</td>
          <td>{{ cliente.nombre }}</td>
          <td>{{ cliente.numruc }}</td>
          <td>{{ cliente.direccion }}</td>
          <td>{{ cliente.telefono }}</td>
          <td>
            <a href="{% url 'actualizar' cliente.pk %}" class="btn btn-warning">Editar</a>
          </td>
          <td>
            <a href="{% url 'eliminar' cliente.pk %}" class="btn btn-danger">Eliminar</a>
          </td>
        </tr>
      </tbody>
    </table>
  </div>
</body>
</html>

```

```

        {% endfor %}
    </tbody>
</table>
</div>

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jleHz"
    crossorigin="anonymous"></script>
</body>

</html>

```

### formulario.html

```

<!-- clientes/templates/clientes/cliente_form.html -->
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <title>Formulario de Cliente</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet"
    integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhY6hW+ALEwIH"
    crossorigin="anonymous">
</head>

<body>
    <div class="container">
        <h1>{% if form.instance.pk %}Editar{% else %}Agregar{% endif %} Cliente</h1>
        <form method="post">
            {% csrf_token %}
            {{ form.as_p }}
            <a href="{% url 'listar' %}" class="btn btn-secondary">Cancelar</a>
            <button type="submit" class="btn btn-primary">Guardar</button>
        </form>

    </div>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLESaAA55NDzOxhy9GkcIdslK1eN7N6jleHz"
    crossorigin="anonymous"></script>
</body>

</html>

```

### eliminar.html

```

<!-- clientes/templates/clientes/cliente_confirm_delete.html -->
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <title>Eliminar Cliente</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet"
  integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhY6hW+ALEwIH"
crossorigin="anonymous">
</head>

<body>
  <div class="container">
    <h1>Eliminar Cliente</h1>
    <p>¿Estás seguro de que deseas eliminar al cliente</p>
    <table class="table">
      <thead>
        <tr>
          <th>#</th>
          <th>Nombre</th>
          <th>RUC</th>
          <th>Direccion</th>
          <th>Telefono</th>
          <th></th>
          <th></th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <td>{{ cliente.id }}</td>
          <td>{{ cliente.nombre }}</td>
          <td>{{ cliente.numruc }}</td>
          <td>{{ cliente.direccion }}</td>
          <td>{{ cliente.telefono }}</td>
          <td></td>
          <td></td>
        </tr>
      </tbody>
    </table>
    <form method="post">
      {% csrf_token %}
      <a href="{% url 'listar' %}" class="btn btn-secondary">Cancelar</a>
      <button type="submit" class="btn btn-danger">Eliminar</button>
    </form>
  </div>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
  integrity="sha384-
YvpcrYf0tY3lHB60NNkmXc5s9fDVZLEsaAA55NDzOxhy9GkcldslK1eN7N6jleHz"
  crossorigin="anonymous"></script>
</body>

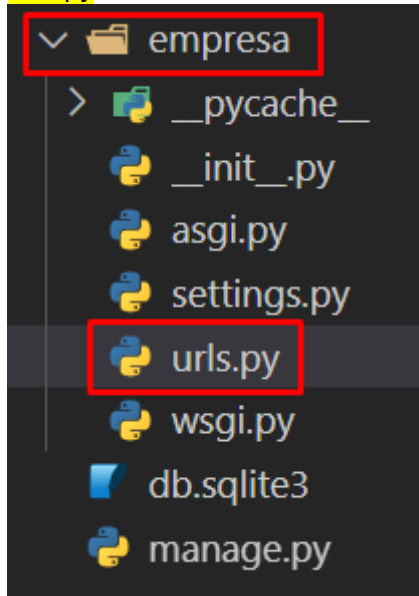
```

</html>

Paso 22: en la carpeta empresa

Ubicarnos en el archivo

urls.py



```
from django.contrib import admin
from django.urls import path, include
```

```
urlpatterns = [
    #path("admin/", admin.site.urls),
    path("", include("clientes.urls")),
]
```

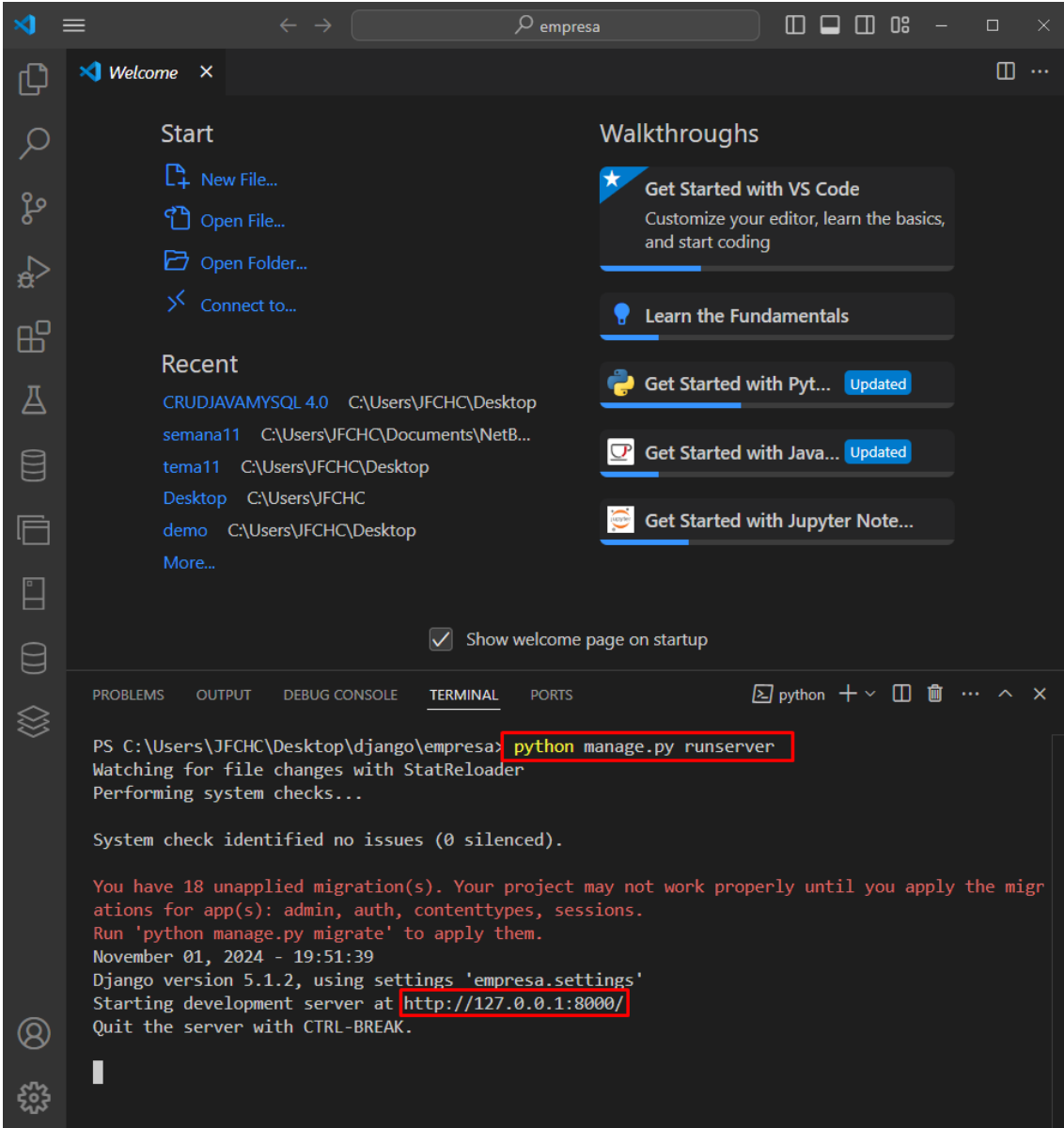
## Paso 22: iniciar el proyecto en django

abrir el terminal de visual studio code a través del comando

control + ñ

luego colocar el comando para que inicie nuestro amigo el proyecto

```
python manage.py runserver
```



## Lista de Clientes

[Agregar Cliente](#)

#	Nombre	RUC	Direccion	Telefono		
1	Juan Perez	20458127400	Av Siempre Viva 123	123456789	Editar	Eliminar