

U.A.B.C.

F.C.A.



PROGRAMACIÓN EN PYTHON

Configuración del Entorno Virtual **PYTHON**

ALUMNO

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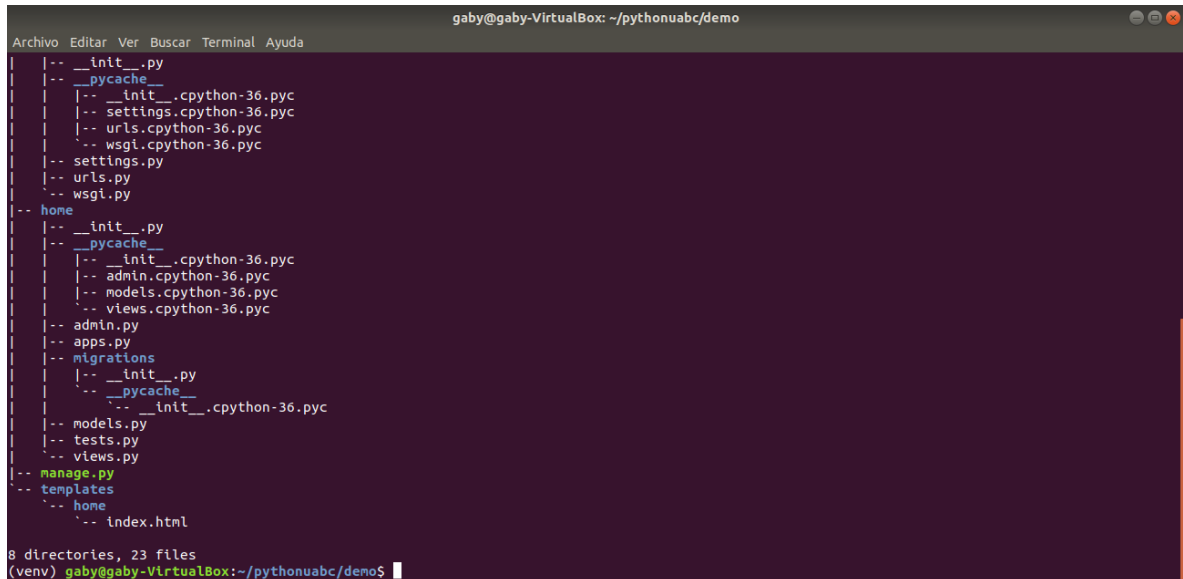
GRUPO

372

DOCENTE

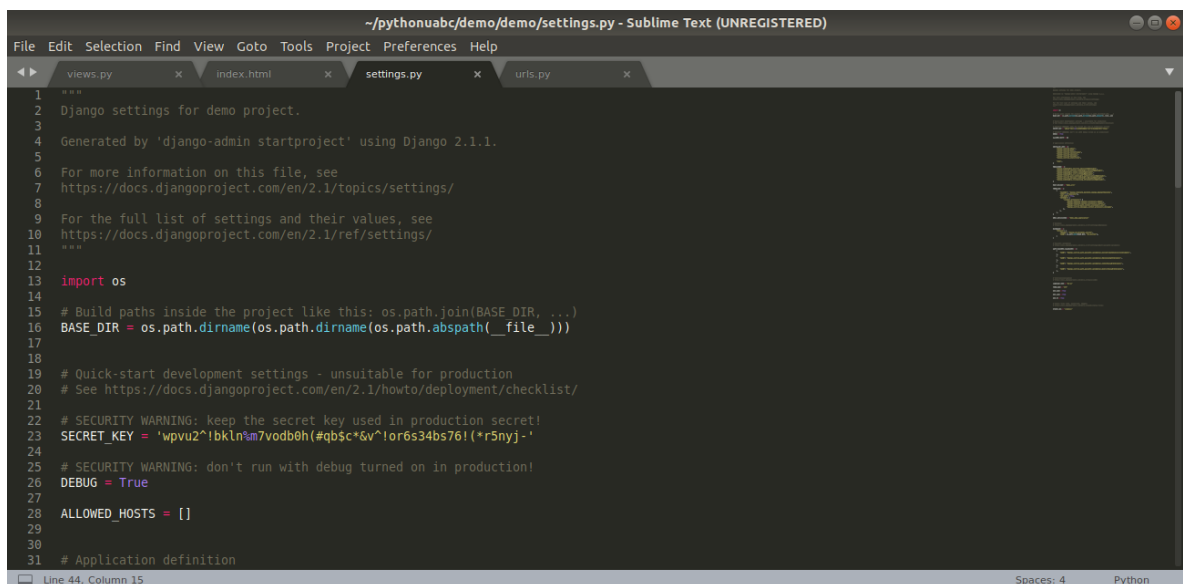
Ray Parra Galaviz

- 1) Para crear un nuevo app debemos escribir el siguiente código Python manage.py startapp home donde vamos a iniciar la app así mismo debemos ver la raíz de nuestras carpetas con tree demo/



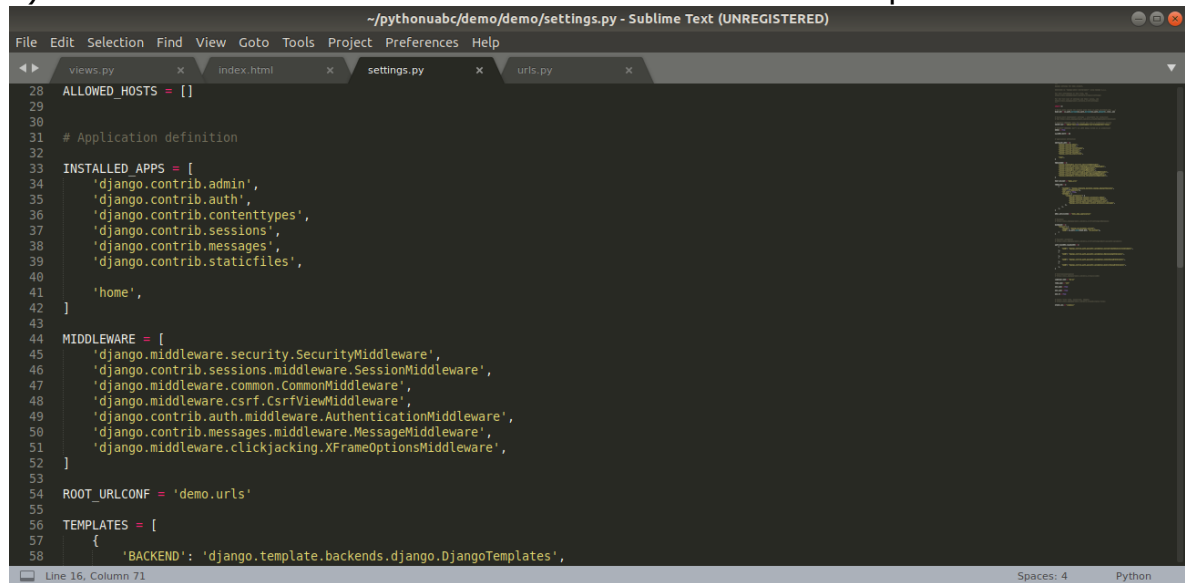
```
gaby@gaby-VirtualBox: ~/pythonuabc/demo
Archivo  Editar  Ver  Buscar  Terminal  Ayuda
-- __init__.py
-- __pycache__
|  -- __init__.cpython-36.pyc
|  -- settings.cpython-36.pyc
|  -- urls.cpython-36.pyc
|  -- wsgi.cpython-36.pyc
-- settings.py
-- urls.py
-- wsgi.py
-- home
|  -- __init__.py
|  -- __pycache__
|  |  -- __init__.cpython-36.pyc
|  |  -- admin.cpython-36.pyc
|  |  -- models.cpython-36.pyc
|  |  -- views.cpython-36.pyc
|  -- admin.py
|  -- apps.py
|  -- migrations
|  |  -- __init__.py
|  |  -- __pycache__
|  |  |  -- __init__.cpython-36.pyc
|  -- models.py
|  -- tests.py
|  -- views.py
-- manage.py
-- templates
|  -- home
|  |  -- index.html
8 directories, 23 files
(venv) gaby@gaby-VirtualBox:~/pythonuabc/demo$
```

- 2) En settings vamos a dar de alta nuestra nueva aplicación



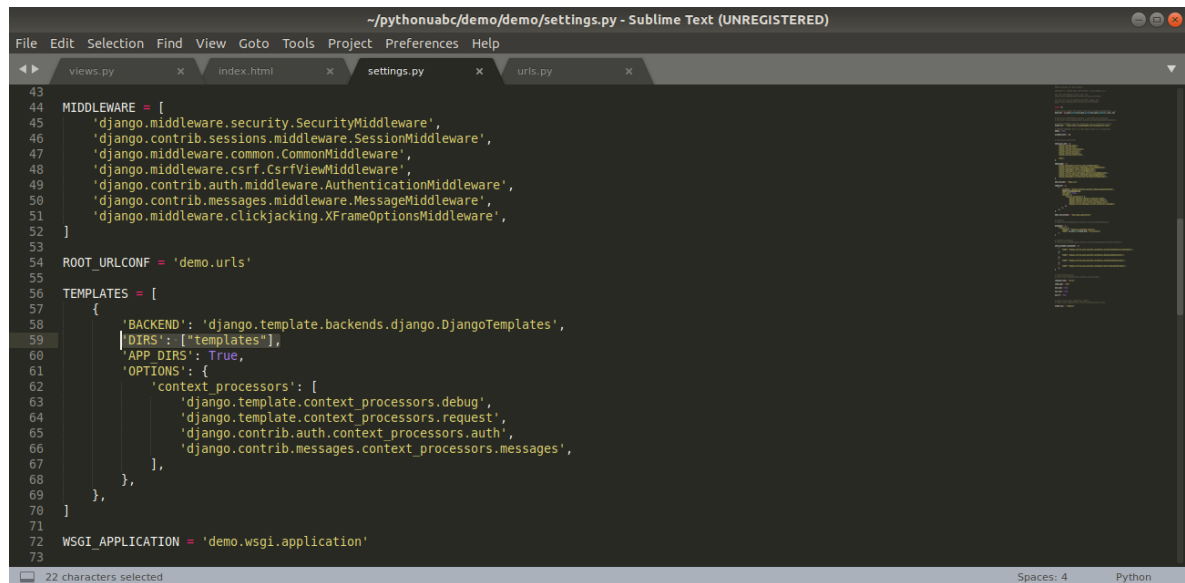
```
~/pythonuabc/demo/demo/settings.py - Sublime Text (UNREGISTERED)
File  Edit  Selection  Find  View  Goto  Tools  Project  Preferences  Help
views.py  x  index.html  x  settings.py  x  urls.py  x
1  """
2  Django settings for demo project.
3
4  Generated by 'django-admin startproject' using Django 2.1.1.
5
6  For more information on this file, see
7  https://docs.djangoproject.com/en/2.1/topics/settings/
8
9  For the full list of settings and their values, see
10 https://docs.djangoproject.com/en/2.1/ref/settings/
11 """
12
13 import os
14
15 # Build paths inside the project like this: os.path.join(BASE_DIR, ...)
16 BASE_DIR = os.path.dirname(os.path.dirname(os.path.abspath(__file__)))
17
18
19 # Quick-start development settings - unsuitable for production
20 # See https://docs.djangoproject.com/en/2.1/howto/deployment/checklist/
21
22 # SECURITY WARNING: keep the secret key used in production secret!
23 SECRET_KEY = 'wpvu2*!bklm7vodb0h(#qb$c*6v*!or6s34bs76!(*r5nyj-.'
24
25 # SECURITY WARNING: don't run with debug turned on in production!
26 DEBUG = True
27
28 ALLOWED_HOSTS = []
29
30
31 # Application definition
```

3) Vamos a escribir home el cual será el nombre de nuestra aplicación



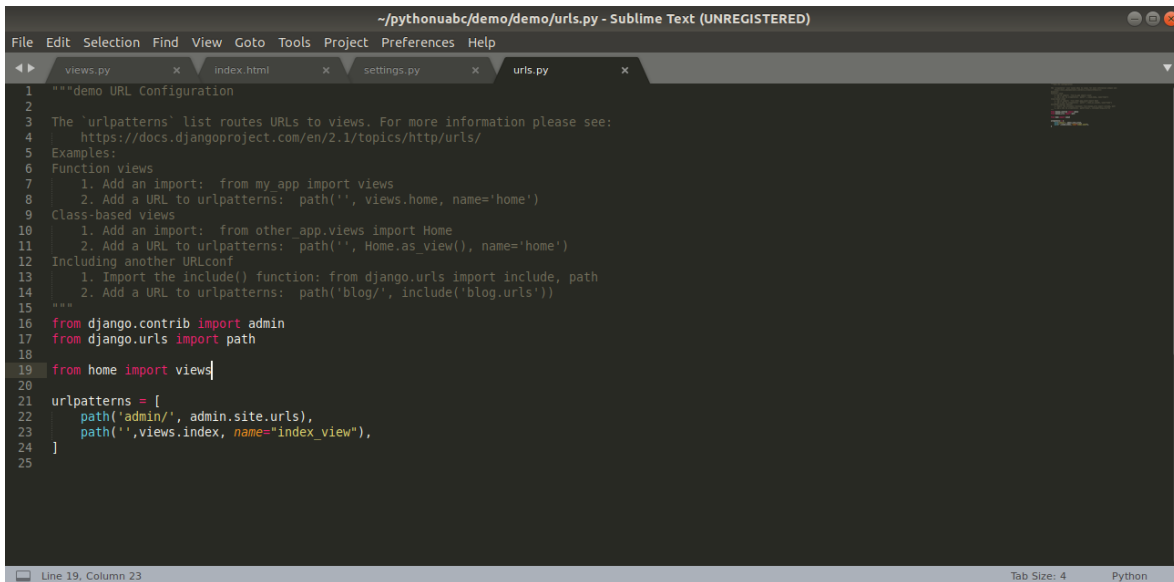
```
28 ALLOWED_HOSTS = []
29
30 # Application definition
31
32 INSTALLED_APPS = [
33     'django.contrib.admin',
34     'django.contrib.auth',
35     'django.contrib.contenttypes',
36     'django.contrib.sessions',
37     'django.contrib.messages',
38     'django.contrib.staticfiles',
39
40     'home',
41 ]
42
43 MIDDLEWARE = [
44     'django.middleware.security.SecurityMiddleware',
45     'django.contrib.sessions.middleware.SessionMiddleware',
46     'django.middleware.common.CommonMiddleware',
47     'django.middleware.csrf.CsrfViewMiddleware',
48     'django.contrib.auth.middleware.AuthenticationMiddleware',
49     'django.contrib.messages.middleware.MessageMiddleware',
50     'django.middleware.clickjacking.XFrameOptionsMiddleware',
51 ]
52
53 ROOT_URLCONF = 'demo.urls'
54
55 TEMPLATES = [
56     {
57         'BACKEND': 'django.template.backends.django.DjangoTemplates',
58     },
59 ]
60
61 WSGI_APPLICATION = 'demo.wsgi.application'
```

4) De igual manera vamos a crear nuestra carpeta Templates donde quedara almacenada donde guardaremos todos los templates de nuestra app



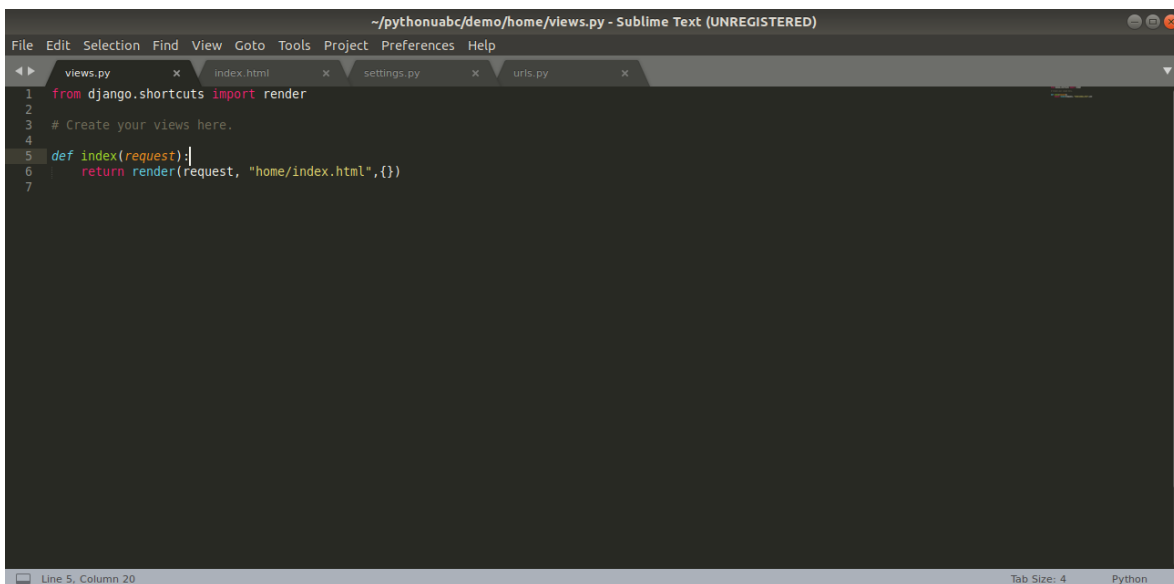
```
43 MIDDLEWARE = [
44     'django.middleware.security.SecurityMiddleware',
45     'django.contrib.sessions.middleware.SessionMiddleware',
46     'django.middleware.common.CommonMiddleware',
47     'django.middleware.csrf.CsrfViewMiddleware',
48     'django.contrib.auth.middleware.AuthenticationMiddleware',
49     'django.contrib.messages.middleware.MessageMiddleware',
50     'django.middleware.clickjacking.XFrameOptionsMiddleware',
51 ]
52
53 ROOT_URLCONF = 'demo.urls'
54
55 TEMPLATES = [
56     {
57         'BACKEND': 'django.template.backends.django.DjangoTemplates',
58         'DIRS': ['templates'],
59         'APP_DIRS': True,
60         'OPTIONS': {
61             'context_processors': [
62                 'django.template.context_processors.debug',
63                 'django.template.context_processors.request',
64                 'django.contrib.auth.context_processors.auth',
65                 'django.contrib.messages.context_processors.messages',
66             ],
67         },
68     },
69 ]
70
71 WSGI_APPLICATION = 'demo.wsgi.application'
```

- 5) En nuestro PATH vamos agregar otro donde no va tener nada de inicio, el cual vamos a utilizar el archivo index. Para esto también vamos a importar home, donde después vamos a crear nuestro index.



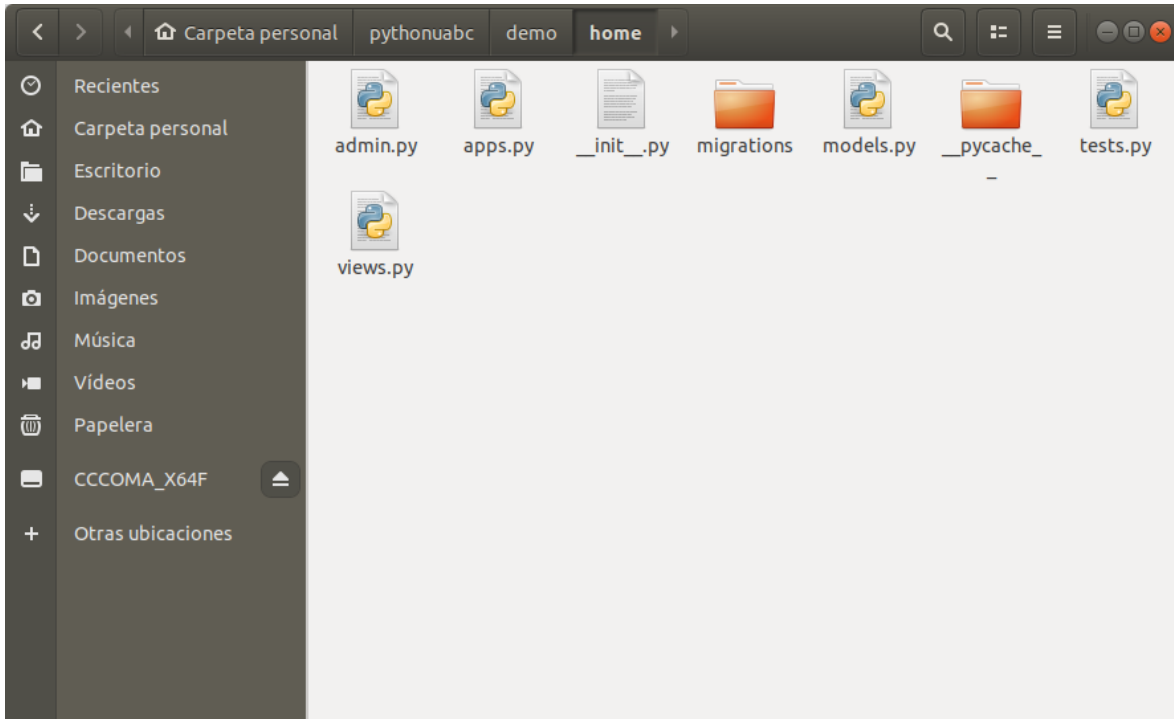
```
~/pythonuabc/demo/demo/urls.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
views.py x index.html x settings.py x urls.py x
1 """demo URL Configuration
2
3 The 'urlpatterns' list routes URLs to views. For more information please see:
4     https://docs.djangoproject.com/en/2.1/topics/http/urls/
5 Examples:
6 Function views
7     1. Add an import: from my_app import views
8     2. Add a URL to urlpatterns: path('', views.home, name='home')
9 Class-based views
10    1. Add an import: from other_app.views import Home
11    2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')
12 Including another URLconf
13    1. Import the include() function: from django.urls import include, path
14    2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
15 """
16 from django.contrib import admin
17 from django.urls import path
18
19 from home import views
20
21 urlpatterns = [
22     path('admin/', admin.site.urls),
23     path('', views.index, name="index_view"),
24 ]
25
Line 19, Column 23 Tab Size: 4 Python
```

- 6) Aquí estamos creando nuestro index donde por el momento va estar vacio, el cual debemos crear nuestro index.html.



```
~/pythonuabc/demo/home/views.py - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
views.py x index.html x settings.py x urls.py x
1 from django.shortcuts import render
2
3 # Create your views here.
4
5 def index(request):
6     return render(request, "home/index.html", {})
7
Line 5, Column 20 Tab Size: 4 Python
```

7) Aquí se muestra la ruta de las carpetas de lo que estamos creando.



8) Ejecutamos nuestro servidor. Con la instrucción Python manage.py runserver

```
gaby@gaby-VirtualBox: ~/pythonuabc/demo
Archivo Editar Ver Buscar Terminal Ayuda
(venv) gaby@gaby-VirtualBox:~/pythonuabc$ cd demo/
(venv) gaby@gaby-VirtualBox:~/pythonuabc/demo$ python manage.py runserver
Performing system checks...

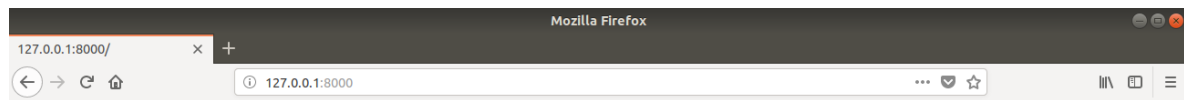
System check identified no issues (0 silenced).

You have 15 unapplied migration(s). Your project may not work properly until you
apply the migrations for app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.

October 09, 2018 - 01:00:39
Django version 2.1.1, using settings 'demo.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.
```

Ya iniciado el servicio se puede abrir en el navegador la siguiente dirección
<http://127.0.0.1:8000/>

9) listo! Ya entramos a nuestra primera aplicación



Bievenidos!!