

SOURCE CODE

```
#manage.py

#!/usr/bin/env python
import os
import sys

if __name__ == '__main__':
    os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'weather.settings')
    try:
        from django.core.management import execute_from_command_line
    except ImportError as exc:
        raise ImportError(
            "Couldn't import Django. Are you sure it's installed and "
            "available on your PYTHONPATH environment variable? Did you "
            "forget to activate a virtual environment?"
        ) from exc
    execute_from_command_line(sys.argv)


# views.py

from django.shortcuts import render
# import json to load json data to python dictionary
import json
# urllib.request to make a request to api
import urllib.request

def index(request):
    if request.method == 'POST':
        city = request.POST['city']
        """ api key might be expired use your own api_key
            place api_key in place of appid ="your_api_key_here " """

        # source contain JSON data from API
```

```

source = urllib.request.urlopen(
    'https://api.openweathermap.org/data/2.5/weather?q='
    + city + '&appid=9794005b26c776d80151c7cfacel3ce9').read()

# converting JSON data to a dictionary
list_of_data = json.loads(source)

# data for variable list_of_data
data = {
    "country_code": str(list_of_data['sys']['country']),
    "coordinate": str(list_of_data['coord']['lon']) + ' '
        + str(list_of_data['coord']['lat']),
    "temp": str(list_of_data['main']['temp']) + 'k',
    "pressure": str(list_of_data['main']['pressure']),
    "humidity": str(list_of_data['main']['humidity']),
}
print(data)
else:
    data={}

return render(request, "main/index.html", data)
def Home(request):
    return render(request,'main/home.html')

# urls.py

from django.urls import path
#now import the views.py file into this code
from . import views

urlpatterns=[
    path('wheather',views.index,name="wheather"),
    path("",views.Home,name="home")
]

```

```
#models.py
```

```
from django.db import models
```

```
# Create your models here.
```

```
#project urls.py
```

```
"""weather URL Configuration
```

The `urlpatterns` list routes URLs to views. For more information please see:

<https://docs.djangoproject.com/en/2.1/topics/http/urls/>

Examples:

Function views

1. Add an import: from my_app import views
2. Add a URL to urlpatterns: `path("", views.home, name='home')`

Class-based views

1. Add an import: from other_app.views import Home
2. Add a URL to urlpatterns: `path("", Home.as_view(), name='home')`

Including another URLconf

1. Import the `include()` function: from `django.urls` import `include`, `path`
2. Add a URL to urlpatterns: `path('blog/', include('blog.urls'))`

```
"""
```

```
from django.contrib import admin
```

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

```
from django.conf import settings
```

```
from django.conf.urls.static import static
```

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

```
if settings.DEBUG:
```

```
    urlpatterns += static(settings.STATIC_URL,document_root=settings.STATIC_ROOT)
```

```
if settings.DEBUG:
```

```
    urlpatterns += static(settings.MEDIA_URL,document_root=settings.MEDIA_ROOT)
```

```

# settings.py

"""
Django settings for weather project.

Generated by 'django-admin startproject' using Django 2.1.7.

For more information on this file, see
https://docs.djangoproject.com/en/2.1/topics/settings/

For the full list of settings and their values, see
https://docs.djangoproject.com/en/2.1/ref/settings/
"""

import os

# Build paths inside the project like this: os.path.join(BASE_DIR, ...)
BASE_DIR = os.path.dirname(os.path.dirname(os.path.abspath(__file__)))

# Quick-start development settings - unsuitable for production
# See https://docs.djangoproject.com/en/2.1/howto/deployment/checklist/

# SECURITY WARNING: keep the secret key used in production secret!
SECRET_KEY = '^d(!_^z&*v@+_guvbv@x9n+uc!z^p8zi17%%9=1ktdyder-m)'

# SECURITY WARNING: don't run with debug turned on in production!
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',
'main'
]

MIDDLEWARE = [
'django.middleware.security.SecurityMiddleware',
'django.contrib.sessions.middleware.SessionMiddleware',
'django.middleware.common.CommonMiddleware',
'django.middleware.csrf.CsrfViewMiddleware',
'django.contrib.auth.middleware.AuthenticationMiddleware',
'django.contrib.messages.middleware.MessageMiddleware',
'django.middleware.clickjacking.XFrameOptionsMiddleware',
]

ROOT_URLCONF = 'weather.urls'

TEMPLATES = [
{
'BACKEND': 'django.template.backends.django.DjangoTemplates',
'DIRS': [BASE_DIR, 'templates'],
'APP_DIRS': True,
'OPTIONS': {
'context_processors': [
'django.template.context_processors.debug',
'django.template.context_processors.request',
'django.contrib.auth.context_processors.auth',
'django.contrib.messages.context_processors.messages',
],
},
},
]

WSGI_APPLICATION = 'weather.wsgi.application'

```

```

# Database
# https://docs.djangoproject.com/en/2.1/ref/settings/#databases

DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': os.path.join(BASE_DIR, 'db.sqlite3'),
    }
}

# Password validation
# https://docs.djangoproject.com/en/2.1/ref/settings/#auth-password-validators

AUTH_PASSWORD_VALIDATORS = [
    {
        'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
    },
    {
        'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
    },
]

# Internationalization
# https://docs.djangoproject.com/en/2.1/topics/i18n/

LANGUAGE_CODE = 'en-us'

TIME_ZONE = 'UTC'

```

```
USE_I18N = True
```

```
USE_L10N = True
```

```
USE_TZ = True
```

```
# Static files (CSS, JavaScript, Images)
```

```
# https://docs.djangoproject.com/en/2.1/howto/static-files/
```

```
import os
```

```
STATIC_URL = '/static/'
```

```
STATICFILES_DIRS=[os.path.join(BASE_DIR , 'static')]
```