



The Mother's International School



Clima

A weather app.

Get Started

INSTRUCTIONS

Make sure you have python 3.8 installed as an *environment variable*.

Locate the *clima* folder using *command prompt*

- ⊗ `cd clima`

Setup a virtual environment using *pipenv*

- ⊗ `pip install pipenv`
- ⊗ `pipenv shell`

Install Django

- ⊗ `pipenv install django`

Start the server

- ⊗ `cd the_weather`
- ⊗ `python manage.py runserver`

You can now view the project live at <https://localhost:8000>.

Files in the project

CODES

/the_weather/**manage.py**

```
#!/usr/bin/env python
"""Django's command-line utility for administrative tasks."""
import os
import sys

def main():
    os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'the_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)
```

```
if __name__ == '__main__':  
    main()
```

/the_weather/weather/views.py

```
import requests  
from django.shortcuts import render  
from .models import City  
from .forms import CityForm  
  
def index(request):  
    url = 'http://api.openweathermap.org/data/2.5/weather?q={}&units=metric&appid=d9e7be3741ce23c93b1a187f9adf0dd7'  
  
    if request.method == 'POST':  
        form = CityForm(request.POST)  
        form.save()  
  
    form = CityForm()  
  
    cities = City.objects.all()  
  
    weather_data = []  
  
    for city in cities:  
  
        r = requests.get(url.format(city)).json()  
  
        city_weather = {  
            'city' : city.name,  
            'temperature' : r['main']['temp'],  
            'description' : r['weather'][0]['description'],  
            'icon' : r['weather'][0]['icon'],  
        }  
  
        weather_data.append(city_weather)  
  
    context = {'weather_data' : weather_data, 'form' : form}  
    return render(request, 'weather/weather.html', context)
```

```
<html>
<body>
  <div class="container">
    <div class="toppart">

      <h1 class="title">Clima</h1>

      <form method="POST">
        {% csrf_token %}
        {{ form.name }}
        <button type="submit">Add City</button>
      </form>
    </div>
  </div>

  <section id="one">
    <div class="container cool" id="grid">
      {% for city_weather in weather_data %}
        <div class="card">
          <div class="flexy">
            <div style="margin-right: 0.8em">
              </div>
              <div>
                <h3 id="capitalize">{{ city_weather.city }}</h3>
                <h5>{{ city_weather.temperature }}° C</h5>
                <h5 id="capitalize">{{ city_weather.description }}</h5>
              </div>
            </div>
          </div>
        </div>
      {% endfor %}
    </div>
  </section>
  <footer>
    Made with <i class="far fa-heart" style="color: red;"></i> by Arhaan and Hrijul
  </footer>
</body>
</html>
```

Product

MOCKUP

