

Task 3 Report

Introduction)

This Django project implements a weather app that allows users to enter their name and location to retrieve current weather information. The app scrapes weather data from Google search results using BeautifulSoup. Here's an overview of the key functions:

Functions)

<code>def fetch_weather(city, state, country):</code>	Located in views.py. Sends a request to Google with the provided location, scrapes the search results using BeautifulSoup, and extracts weather information. All the extracted information is then stored in a dictionary which the function returns.
<code>def weather_view(request):</code>	It is located in views.py. Handles GET and POST requests. For POST requests, it calls <code>fetch_weather</code> to gather weather data and renders the HTML template. For GET requests, it creates an empty weather form.

Screenshots

Colorado Springs, Colorado, USA

Weather Information

Welcome Jakob Potter!

Weather for **COLORADO SPRINGS, Colorado, United States:**

- Temperature: 43°F/ 6.1°C
- Precipitation: 0%
- Humidity: 27%
- Wind: 3 mph

Winter Park, Colorado, USA

Weather Information

Welcome Jakob Potter!

Weather for **Winter Park, Colorado, United States:**

- Temperature: 33°F/ 0.6°C
- Precipitation: 0%
- Humidity: 17%
- Wind: 10 mph

Winter Park, Florida, USA

Weather Information

Welcome Jakob Potter!

Weather for **Winter Park, Florida, United States**:

- Temperature: 64°F/ 17.8°C
- Precipitation: 0%
- Humidity: 52%
- Wind: 9 mph

Alexandria, Virginia, USA

Weather Information

Welcome Jakob Potter!

Weather for **Alexandria, Virginia, United States**:

- Temperature: 37°F/ 2.8°C
- Precipitation: 0%
- Humidity: 35%
- Wind: 6 mph

Alexandria, Ontario, Canada

Weather Information

Welcome Jakob Potter!

Weather for **Alexandria, Ontario, Canada**:

- Temperature: 32°F / 0.0°C
- Precipitation: 25%
- Humidity: 76%
- Wind: 9 mph

Melbourne, Florida, USA

Weather Information

Welcome Jakob Potter!

Weather for **Melbourne, Florida, USA**:

- Temperature: 67°F / 19.4°C
- Precipitation: 0%
- Humidity: 59%
- Wind: 12 mph

Melbourne, Victoria, Australia

Weather Information

Welcome Jakob Potter!

Weather for **Melbourne, Victoria, Australia**:

- Temperature: 68°F/ 20.0°C
- Precipitation: 0%
- Humidity: 65%
- Wind: 10 mph

Group Members:

None