pip install requests dash dash-core-components dash-html-components Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (2.31.0) Requirement already satisfied: dash in /usr/local/lib/python3.10/dist-packages (2.16.1) $Requirement already \ satisfied: \ dash-core-components \ in \ /usr/local/lib/python 3.10/dist-packages \ (2.0.0)$ Requirement already satisfied: dash-html-components in /usr/local/lib/python3.10/dist-packages (2.0.0) Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests) (3.3.2) Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests) (3.6) Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests) (2.0.7) Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests) (2024.2.2) Requirement already satisfied: Flask<3.1,>=1.0.4 in /usr/local/lib/python3.10/dist-packages (from dash) (2.2.5) Requirement already satisfied: Werkzeug<3.1 in /usr/local/lib/python3.10/dist-packages (from dash) (3.0.2) Requirement already satisfied: plotly>=5.0.0 in /usr/local/lib/python3.10/dist-packages (from dash) (5.15.0) Requirement already satisfied: dash-table==5.0.0 in /usr/local/lib/python3.10/dist-packages (from dash) (5.0.0) Requirement already satisfied: importlib-metadata in /usr/local/lib/python3.10/dist-packages (from dash) (7.1.0) Requirement already satisfied: typing-extensions>=4.1.1 in /usr/local/lib/python3.10/dist-packages (from dash) (4.11.0) Requirement already satisfied: retrying in /usr/local/lib/python3.10/dist-packages (from dash) (1.3.4) Requirement already satisfied: nest-asyncio in /usr/local/lib/python3.10/dist-packages (from dash) (1.6.0) Requirement already satisfied: setuptools in /usr/local/lib/python3.10/dist-packages (from dash) (67.7.2) Requirement already satisfied: Jinja2>=3.0 in /usr/local/lib/python3.10/dist-packages (from Flask<3.1,>=1.0.4->dash) (3.1.3) Requirement already satisfied: itsdangerous>=2.0 in /usr/local/lib/python3.10/dist-packages (from Flask<3.1,>=1.0.4->dash) (Requirement already satisfied: click>=8.0 in /usr/local/lib/python3.10/dist-packages (from Flask<3.1,>=1.0.4->dash) (8.1.7) Requirement already satisfied: tenacity>=6.2.0 in /usr/local/lib/python3.10/dist-packages (from plotly>=5.0.0->dash) (8.2.3) Requirement already satisfied: packaging in /usr/local/lib/python3.10/dist-packages (from plotly>=5.0.0->dash) (24.0) Requirement already satisfied: MarkupSafe>=2.1.1 in /usr/local/lib/python3.10/dist-packages (from Werkzeug<3.1->dash) (2.1.5 Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.10/dist-packages (from importlib-metadata->dash) (3.18.1) Requirement already satisfied: six>=1.7.0 in /usr/local/lib/python3.10/dist-packages (from retrying->dash) (1.16.0) import requests import dash import dash_core_components as dcc import dash_html_components as html from dash.dependencies import Input, Output # Function to fetch weather data from OpenWeatherMap API def get_weather_data(city): api key = '2f95998cbf547c3726cd968346e40405' # Replace with your actual API key url = f'http://api.openweathermap.org/data/2.5/weather?q={city}&appid={api_key}&units=metric' # units=metric for Celsius response = requests.get(url) data = response.json() return data # Create Dash application app = dash.Dash(__name__) # Define layout app.layout = html.Div([html.H1("Weather Dashboard", style={'text-align': 'center'}), dcc.Input(id='city-input', type='text', placeholder='Enter city name', debounce=True), html.Div(id='weather-info', style={'margin-top': '20px'})]) # Define callback function to update weather information based on user input @app.callback(Output('weather-info', 'children'), [Input('city-input', 'value')] def update_weather_info(city): if city: data = get_weather_data(city) if 'main' in data: temperature = data['main']['temp'] weather_description = data['weather'][0]['description'].capitalize() humidity = data['main']['humidity'] wind_speed = data['wind']['speed'] return html.Div([html.H3(f"Weather in {city}:"), html.P(f"Temperature: {temperature}°C"), html.P(f"Weather Description: {weather_description}"), html.P(f"Humidity: {humidity}%"), html.P(f"Wind Speed: {wind_speed} m/s")]) else: return html.Div("City not found") # Run the Dash application if __name__ == '__main__': ann run server(dehun=True)

Weather Dashboard

kansas

Weather in kansas:

Temperature: 19.54°C

Weather Description: Clear sky

Humidity: 34%

Wind Speed: 9.95 m/s