



## The Superior University

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Name: Fatima Nadeem	Roll No:076	Course: PAI Lab
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### Lab Task 08

#### Weather App With Flask & Html

The `app.py` file is a Flask-based Python script that powers the weather application. It starts by importing necessary libraries like `Flask`, `requests`, and `datetime`. The Flask app is initialized using `app = Flask(__name__)`, and an API key for OpenWeatherMap is required to fetch weather data. The main route (`/`) handles both `GET` and `POST` requests. When a user enters a city name and submits the form, the script makes an API request to OpenWeatherMap, retrieves weather details, and extracts information such as temperature, humidity, wind speed, and weather description. This data is then sent to the frontend (`index.html`) for display. If the city is invalid, an error message is shown. Additionally, `datetime` is used to fetch and display the current day and time.

# Weather App

Enter city

Get Weather

# Weather App

Get Weather

## Weather in Lahore

**Day:** Wednesday

**Time:** 20:52:02

**Temperature:** 24.99°C

**Humidity:** 47%

**Wind Speed:** 3.09 m/s

**Condition:** haze



## Weather App

Get Weather

### Weather in Karachi

**Day:** Wednesday

**Time:** 20:51:44

**Temperature:** 25.9°C

**Humidity:** 61%

**Wind Speed:** 5.14 m/s

**Condition:** clear sky

