

Project title: Weather Forecasting App

Project Overview:

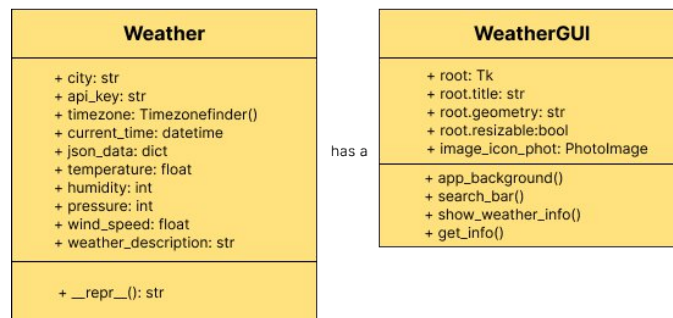
Weather Forecasting is an app that will give you weather information according to your city name. It provides you many things like city temperature, humidity, pressure, wind speed, weather description, current time and time zone. It is an easy app; you can use it easily. Nothing is hard. You need an internet connection; it's not given any information without internet connection.

Why I choose this Project:

I choose this project because I created it too many times. It was very easy for me. I created before it as console-based. At this time I created it GUI (Graphic User Interface) based.

Project Explanation:

Weather Forecasting App UML Diagram



I created two classes `weather` and `weatherGUI`. The `Weather` class will return the info and the `weatherGUI` class I use for GUI (Graphical User Interface). UI I created in Figma then I convert to tkinter libraries. design link is [UI Design Link](#).

I used many modules/libraries which are `tkinter`, `geopy`, `timezonfinder`, `requests`, `datetime`, `pytz`

Tkinter:

It is a framework use for creating desktop GUI application

Geopy:

It gives us geocoding (converting addresses to geographic coordinates) and reverse geocoding (finding addresses based on coordinates) functionality.

Timezonefinder:

It we use for finding timezone of give location.

Requests:

Requests is a popular HTTP library, it allow us to send HTTP request, I used it for API.

datetime:

I used it for working with class and time

Pytz:

It allows us user for working with timezone and perform conversion between different timezones

I used many other things assest and API, API mean Applicattion Programing Interface use for communication between to servers or apps. I get api from [openweathermap website](https://openweathermap.org/).

How to use the Weather Forecasting App:

First install all the necessary libraries then it will work tkinter, geopy, timezonfinder, requests, datetime, pytz

Console Based:

Run the demo.py file and enter the city name it will display the city all weather information

GUI Based:

Run the weathergui.py file

Enter your city name in search bar

