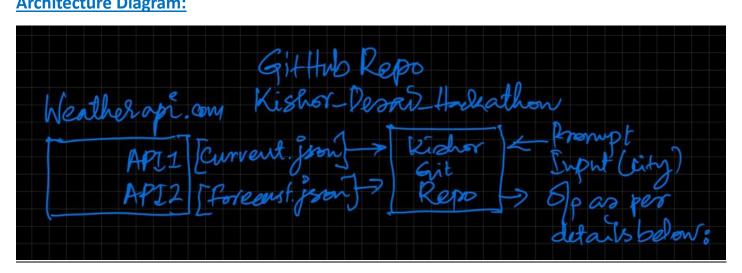
Project Title – Weather Forecasting Tool



Components Used:

- Visual Studio Code (IDE)
- Python (Anaconda Distribution) Ver 3.9
 - Requests Module
 - Tabulate Module for neat output
- API's Consumed
 - o http://api.weatherapi.com/v1/current.json?key={apikey}&q={city}
 - o http://api.weatherapi.com/v1/forecast.json?key={apikey}&q={city}&days=3

Architecture Diagram:



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Program Execution / output:

Anaconda Prompt

F:\ACADEMICS\EXTRAS\MSFTHCKTHN_230624>python main.py

Enter the City Name: Bangalore

Current Weather Details of Bangalore, Karnataka, India:

Temperature	Feels Like	Condition	Humidity	Wind Speed	Wind Direction
27.0C/80.6F	28.5C/83.3F	Partly cloudy	66	19.1KPH/11.9MPH	W

Forecast Details:

Max Temperature	Min Temperature	Condition	Humidity	Chance of Rain	Precipitation
26.9C/80.4F	20.7C/69.3F	Moderate rain	75.0	89%	12.2 mm

Astro Details:

Sunrise Time	Sunset Time	Moonrise Time	Moonset Time
05:55 AM	06:49 PM	10:50 AM	11:30 PM

F:\ACADEMICS\EXTRAS\MSFTHCKTHN_230624>_

Unit Test code inclusion using Co-Pilot. Test Case Execution Outcome:

F:\ACADEMICS\EXTRAS\MSFTHCKTHN_230624>python test.py Enter the City Name:Bangalore

Current Weather Details of Bangalore, Karnataka, India:

Temperature	Feels Like	Condition	Humidity	Wind Speed	Wind Direction
27.0C/80.6F	28.4C/83.2F	Partly cloudy	66	20.2KPH/12.5MPH	WSW

Forecast Details:

Max Temperature	Min Temperature	Condition	Humidity	Chance of Rain	Precipitation
26.9C/80.4F	20.7C/69.3F	Moderate rain	75.0	89%	12.2 mm

Astro Details:

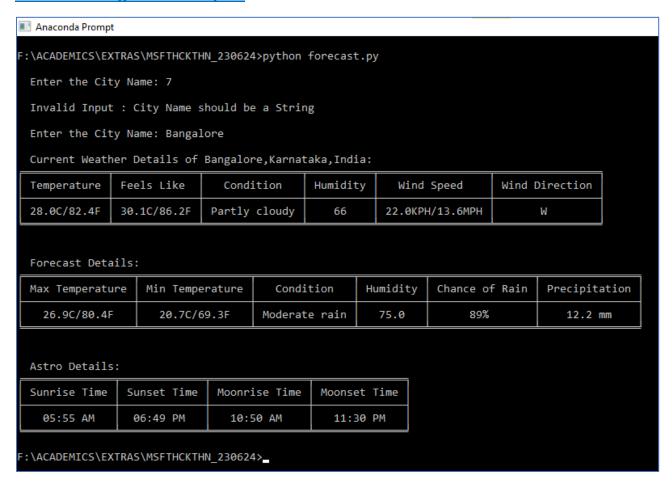
Sunrise Time	Sunset Time	Moonrise Time	Moonset Time
05:55 AM	06:49 PM	10:50 AM	11:30 PM

Ran 1 test in 0.002s

Ok

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Error Handling for User Input:



Note: Tried using the Co-Pilot to generate a code for error handling and input validation, but couldn't get sufficient code, hence wrote the code on my own.

Thank You Team Microsoft and GitHub for being wonderful host!

