—TWITTER BOT—

~Zense Recruitment Project, IIITB
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Idea and Motivation

I've always wanted to explore the twitter API and play around with it. I took Zense's recruitment as an opportunity to do both, build something and try to get into Zense. I looked for things i could make the bot do and decided to use another API, Openweather API. I just wanted to experiment and decided to build a bot that gives a user the weather of a city.

What it does

The user tags the bot in a tweet and specifies the name of the city. The bot will reply to the tweet with a description of the weather in that city.

Tech Used

- Python 3.8
- Python Libraries: Tweepy 4.10, Requests 2.28
- Opensource API's: Openweather API, Twitter API (Elevated access)

Setup and How to Run

Link:
https://github.com/yuktaX/Twitter-Bot/blob/master/README.md#setup-and-how-to-run

Documentation

Includes the following:
 -How the bot works
 -Code explanation
Link: https://github.com/yuktaX/Twitter-Bot/blob/master/README.md#documentation

Screenshots:

Potential Bugs and Future Aspect

- The bot makes only one reply to a tweet and to check this, I've stored all the tweet ids from the mentions_timeline in a txt file. If large number of users(>10000) tag the bot, the loop will take longer to go through all the ids. It takes linear time and this will not be most efficient way to check all the ids (basically brute force and not optimised).
The Fix: Checking only from a specified timestamp. Retrieve tweets only from the last checked one so the algo doesnt have to check the same set of ids again. Do this from the most recent to last checked. I had tried to implement this but faced errors which I was unable to debug so changed my approach.
- Running the bot on local system for a long time with many users using it can cause delays in replies.
The Fix: Will have to host it on a stronger server and keep it running 24/7