

Wet Weather Notify

WetWeatherNotify is an innovative and user-friendly project that aims to keep users informed about the chances of rainfall in their respective areas.

Created By -
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Introduction

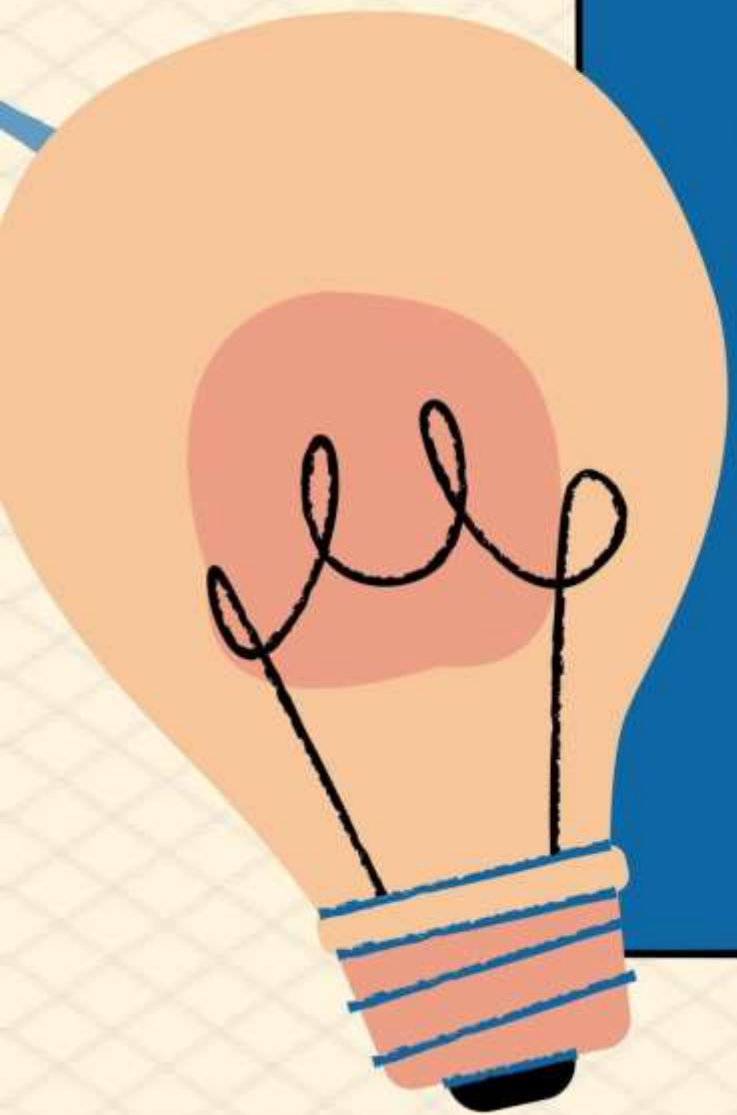
WetWeatherNotify is an innovative and user-friendly project that aims to keep users informed about the chances of rainfall in their respective areas. It is a weather notification service designed to provide timely updates and alerts to users, ensuring they are prepared for potential rain showers and adverse weather conditions.





OUR FIRST GOAL

To put together a team of people that felt the same way about the problems the world was facing! The project aims to provide users with highly accurate and reliable weather forecasts. Collaborating with <https://www.weatherapi.com/> weather data providers and employing advanced forecasting algorithms will be crucial in achieving this goal.





OUR SECOND GOAL

The project's primary focus is to guarantee timely email notifications for potential rainfall to users. Emphasizing efficient data processing and delivery mechanisms, we aim to offer real-time updates. By prioritizing swift and accurate information dissemination, we aspire to keep users informed about imminent weather changes. This commitment

Our Goals

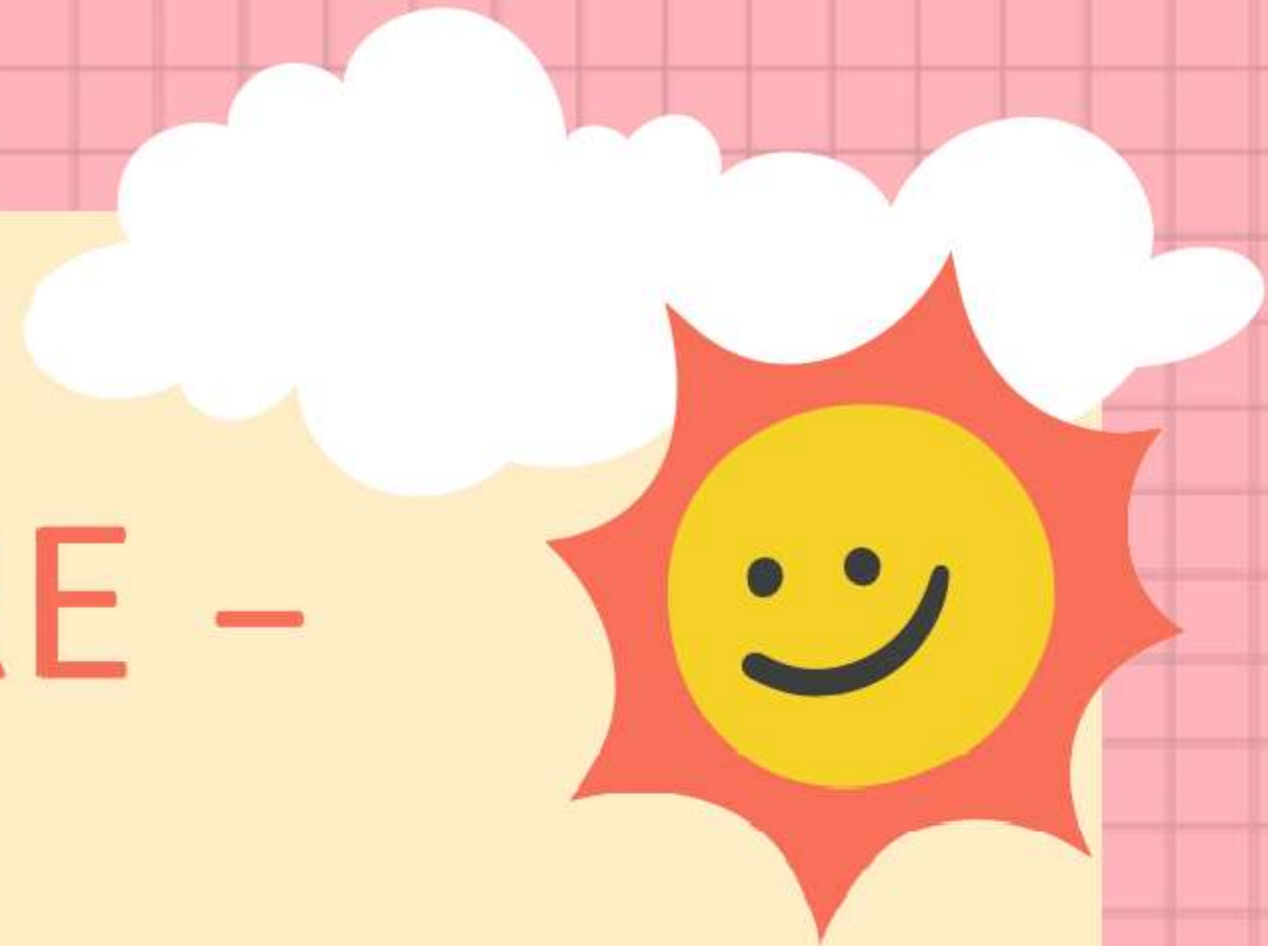
to timely communication ensures that individuals can proactively respond to evolving weather conditions, enhancing overall safety and preparedness.



THIRD GOAL

Our project aims to deliver a personalized user experience by enabling individuals to set their preferred location. This customization feature ensures that users receive weather updates relevant to their chosen area, enhancing the relevance and applicability of the information provided. By tailoring the experience to individual preferences, we strive to make the weather forecasting service more user-centric and adaptable to diverse geographical needs.





WORKING PROCEDURE –

- LANGUAGE
- FETCH THE WEATHER
- NOTIFICATION EMAIL
- SCHEDULE PROGRESS

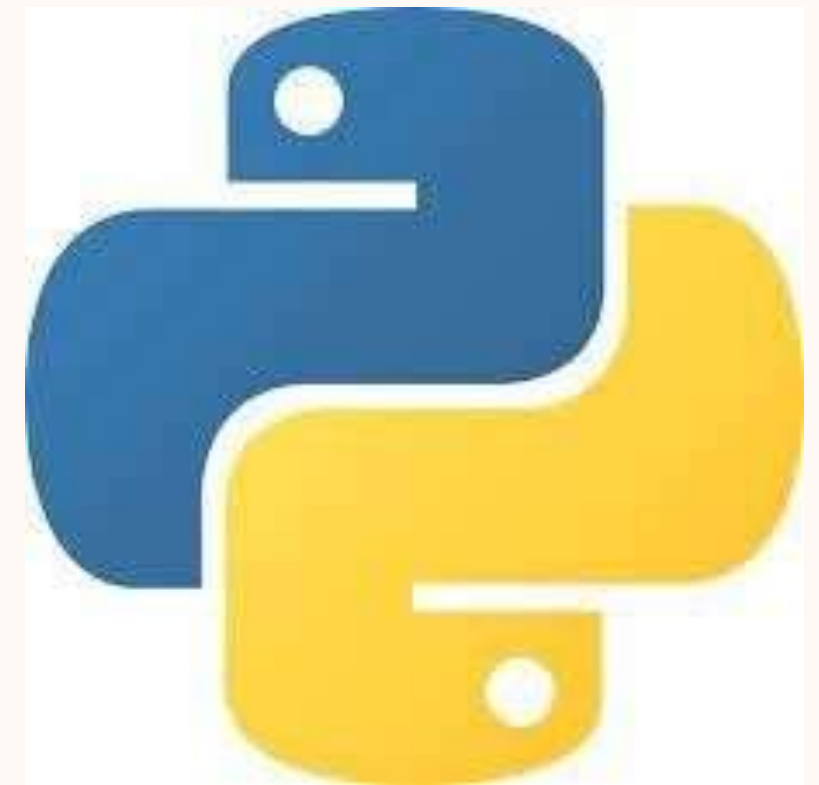


Language

The project is based on the Python programming language.

Python is a versatile, high-level programming language known for its readability and simplicity. Its clean syntax and dynamic typing facilitate rapid development across various domains, including web development, data science, and artificial intelligence.

With a rich standard library and an active community, Python supports object-oriented and procedural programming, making it accessible to beginners and powerful for experienced developers. Its interpreted nature, cross-platform compatibility, and extensive ecosystem of frameworks and libraries contribute to Python's widespread popularity and adoption in diverse fields.



Fetching the Weather

The project utilizes a list of dictionaries to store user data, with each dictionary containing keys such as email, latitude, and longitude to represent different locations. This data is then passed to the function 'getRainPossibility', which interacts with WeatherAPI.com to fetch weather-related information. The function returns a dictionary with keys "daily_will_it_rain" and "daily_chance_of_rain" to provide users with insights about the possibility of rain at their specified locations.



Notification Email

Based on the value of `chance_of_rain`, a thread is triggered to execute and send a notification email to the client. This process occurs within a loop that iterates over the number of clients in the list of dictionaries, ensuring that each client's weather data is processed and notifications are sent based on their specified locations.



Scheduling Process

The project employs the schedule library to meticulously time weather updates and notifications for clients. This ensures timely information delivery without delays. Utilizing the library enables efficient coordination of data retrieval from WeatherAPI.com and thread execution for email notifications, tailored to each client's designated location. With this scheduling mechanism, the project seamlessly automates the process, providing clients with a hassle-free experience. Users receive pertinent weather information promptly, allowing them to plan activities with foresight and stay prepared for possible rain in their specific areas.



Advantages



FIRST ADVANTAGE

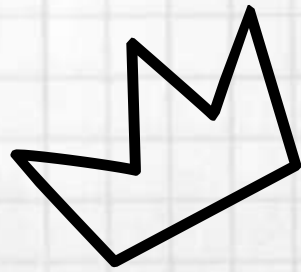
Helps in predicting weather

SECOND ADVANTAGE

Gives you the notification of weather change

THIRD ADVANTAGE

Helps in getting weather notification



Conclusion

WetWeatherNotify is a valuable project that leverages technology to provide an essential service to users. By offering personalized and timely weather alerts via email, the project ensures that individuals can proactively adapt to changing weather conditions and make informed decisions accordingly. Whether it's planning outdoor activities or safeguarding against potential weather risks, WetWeatherNotify is the go-to solution for staying weather-informed and weather-ready.



THANK

YOU

