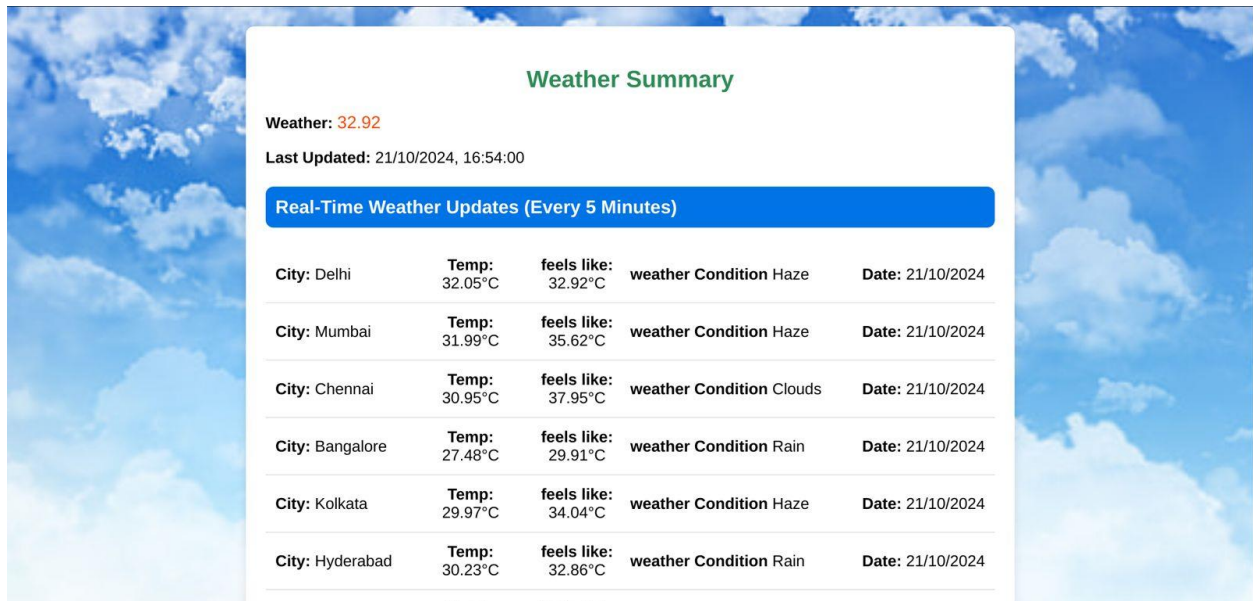


Weather Application:

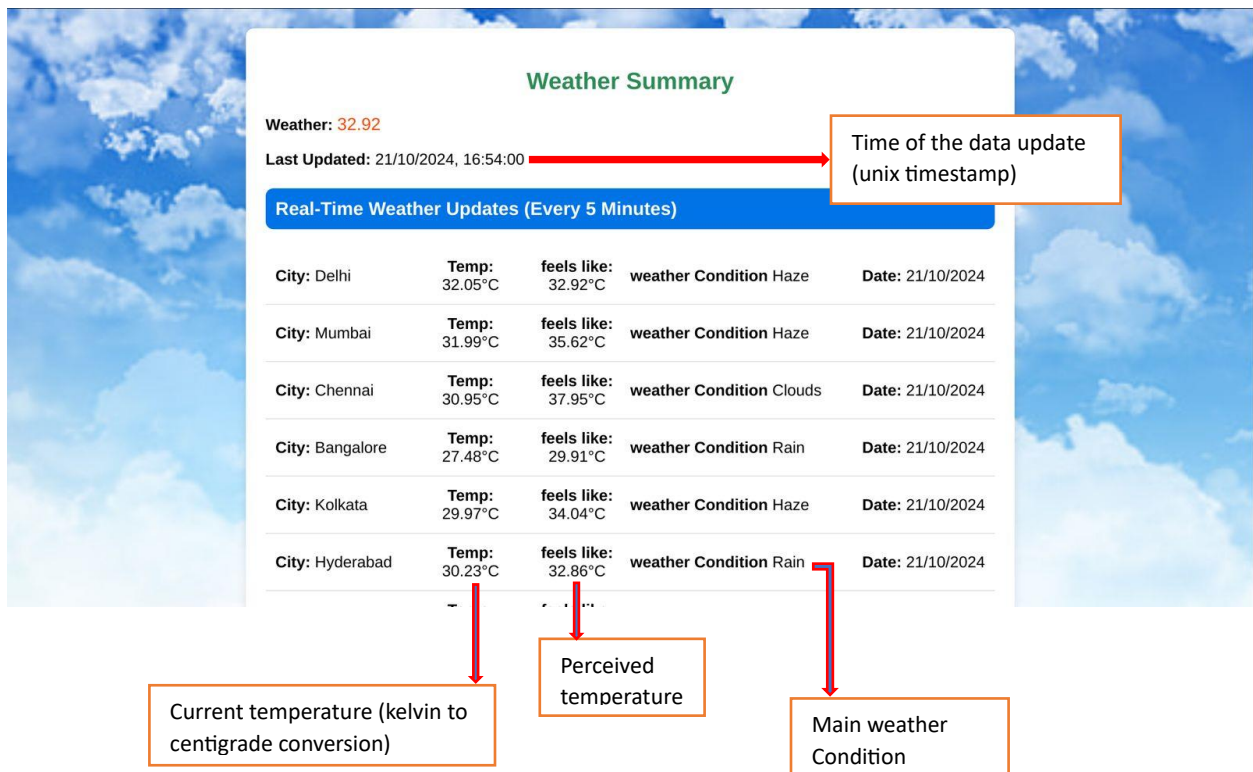
This project is a real time data processing system that monitors weather conditions and provides summarized insights using rollups and aggregates. It retrieves weather data from the OpenWeatherMap API and processes it for specific Indian metro cities. The system calculates daily aggregates, trigger alerts based on user-configurable thresholds, and displays the output through a web interface.



The screenshot displays a web interface titled "Weather Summary" with a background of a blue sky and clouds. At the top, it shows "Weather: 32.92" and "Last Updated: 21/10/2024, 16:54:00". Below this is a blue header for "Real-Time Weather Updates (Every 5 Minutes)". A table lists weather data for six cities: Delhi, Mumbai, Chennai, Bangalore, Kolkata, and Hyderabad. Each row includes the city name, current temperature, feels-like temperature, weather condition, and the update date.



City	Temp	feels like	weather Condition	Date
Delhi	32.05°C	32.92°C	Haze	21/10/2024
Mumbai	31.99°C	35.62°C	Haze	21/10/2024
Chennai	30.95°C	37.95°C	Clouds	21/10/2024
Bangalore	27.48°C	29.91°C	Rain	21/10/2024
Kolkata	29.97°C	34.04°C	Haze	21/10/2024
Hyderabad	30.23°C	32.86°C	Rain	21/10/2024

Weather Updates.



This annotated version of the screenshot explains the data fields. A red arrow points from the "Last Updated" timestamp to a box labeled "Time of the data update (unix timestamp)". Another red arrow points from the "Temp" column to a box labeled "Current temperature (kelvin to centigrade conversion)". A third red arrow points from the "feels like" column to a box labeled "Perceived temperature". A fourth red arrow points from the "weather Condition" column to a box labeled "Main weather Condition".

City	Temp	feels like	weather Condition	Date
Delhi	32.05°C	32.92°C	Haze	21/10/2024
Mumbai	31.99°C	35.62°C	Haze	21/10/2024
Chennai	30.95°C	37.95°C	Clouds	21/10/2024
Bangalore	27.48°C	29.91°C	Rain	21/10/2024
Kolkata	29.97°C	34.04°C	Haze	21/10/2024
Hyderabad	30.23°C	32.86°C	Rain	21/10/2024

	City: Hyderabad	Temp: 26.06°C	feels like: 26.06°C	weather Condition Haze°C	Date: 23/10/2024
	City: Hyderabad	Temp: 26.06°C	feels like: 26.06°C	weather Condition Haze°C	Date: 23/10/2024
	Daily Weather Summary				
	City: Delhi	Avg Temp: 30.49°C	Max Temp: 32.06°C	Dominant Weather: Haze	Date: 21/10/2024
	City: Mumbai	Avg Temp: 30.55°C	Max Temp: 32.06°C	Dominant Weather: Haze	Date: 21/10/2024
	City: Chennai	Avg Temp: 30.39°C	Max Temp: 32.06°C	Dominant Weather: Haze	Date: 21/10/2024
	City: Bangalore	Avg Temp: 29.68°C	Max Temp: 32.06°C	Dominant Weather: Haze	Date: 21/10/2024
	City: Kolkata	Avg Temp: 30.11°C	Max Temp: 32.06°C	Dominant Weather: Haze	Date: 21/10/2024
	City: Hyderabad	Avg Temp: 30.32°C	Max Temp: 32.06°C	Dominant Weather: Haze	Date: 21/10/2024
					

Weather summary.