



Weather App

MC Project Final Review

Yash Singh - 2022589

Yogesh Kumar - 2022593

Shrey Yadav - 2022483





Application Features

01

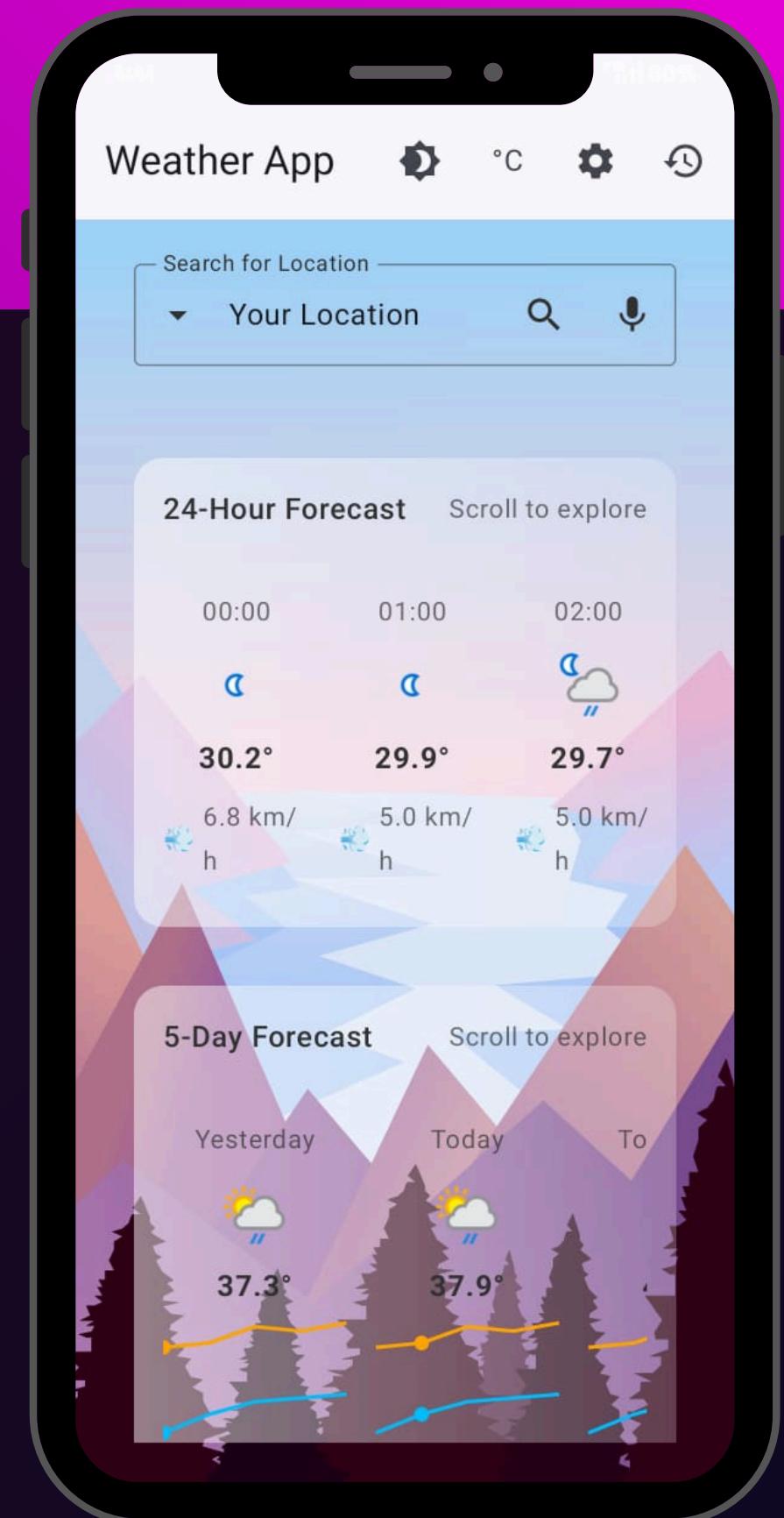
- Fetches live weather data using WeatherAPI.
- Stores recent searches and weather data locally for faster access.

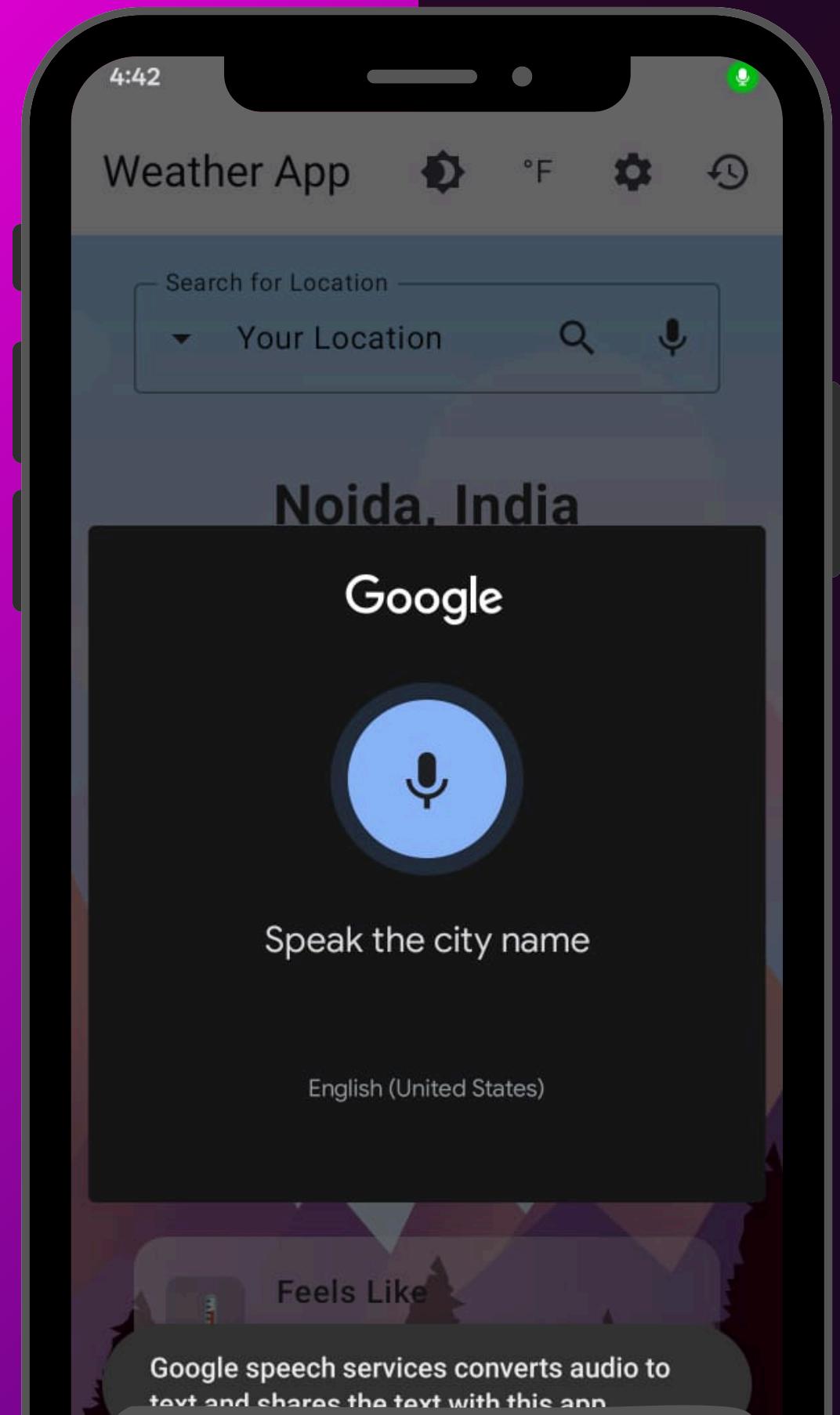
02

- Home Screen: Displays current weather, temperature, and location.
- Forecast Screen: Shows a 5-day weather forecast with temperature, humidity, and wind speed
- 24 hour Forecast Screen: Shows a 24-hour detailed weather forecast with wind speed details.

03

- Caching the data to show all the previous history searched.
- Settings/Profile Screen: Allows users to manage preferences such as temperature units ($^{\circ}\text{C}/^{\circ}\text{F}$) and notification settings.





Extra Features

- Voice commands to fetch weather (Google Assistant integration).
- Using a Weather Background Tracker to collect the information about specified location alerts for weather.
- Uses GPS Location to fetch weather based on the user's real-time location.
- Implements dark mode to reduce battery consumption.
- Talkback Feature to enhance the accessibility for the user.
- Lotti Animation for the Dynamic Live Background for interactive UI for user enhanced experience with the application.

Features in our UI/UX Design

The image shows two screenshots of a weather application. The left screenshot displays the main welcome screen with a large sun icon and the text 'WELCOME TO WEATHER APP' and 'WEATHER APP'. At the top, there's a navigation bar with the app name, settings icons, and a unit selector between Celsius and Fahrenheit. Below the navigation bar is a search bar labeled 'Search for Location' with a magnifying glass icon and a microphone icon for voice search. A blue curved arrow points from this microphone icon to the text 'Can toggle between Celsius to Fahrenheit and vice versa'. Another white arrow points from the microphone icon to the text 'User Can use this Direct Voice Search feature'. A third white arrow points from the microphone icon to the text 'Can also type in the search bar and press this button to search!'. The right screenshot shows the results of a voice search for 'Noida, India'. It displays the location 'Noida, India' and 'Google' with a microphone icon. Below this is a button labeled 'Speak the city name'. A speech bubble at the bottom states 'Google speech services converts audio to text and shares the text with this app.' A white arrow points from the text 'After pressing the voice search button, the Android Default speech services opens to convert the audio to text and automatically search it in the application' to the microphone icon on the search bar of the right screenshot.

Can toggle between Celsius to Fahrenheit and vice versa

User Can use this Direct Voice Search feature

Can also type in the search bar and press this button to search!

After pressing the voice search button, the Android Default speech services opens to convert the audio to text and automatically search it in the application

WEATHER APP

WEATHER APP

4:42

Weather App

Search for Location

Your Location

Noida, India

Google

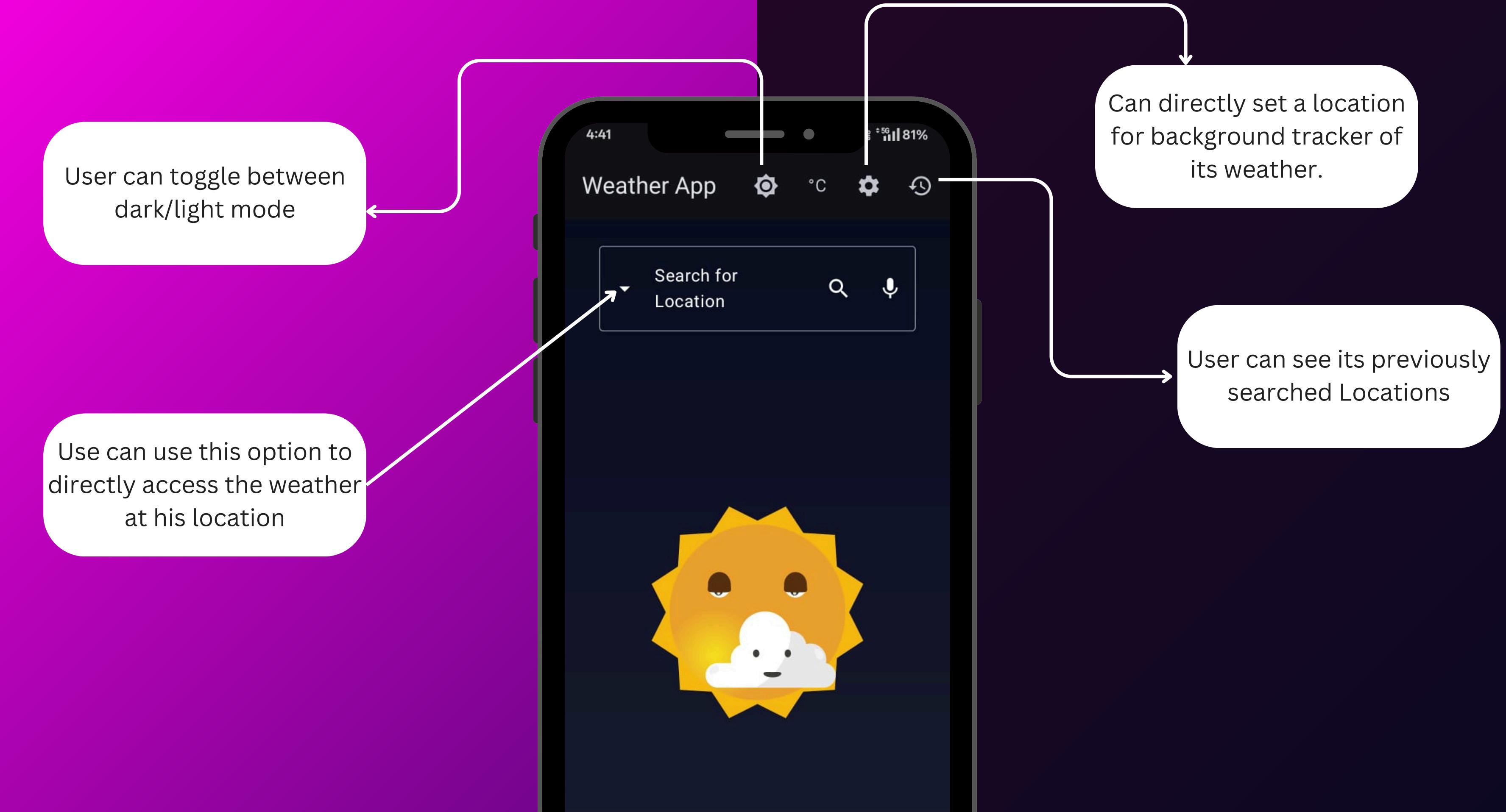
Speak the city name

English (United States)

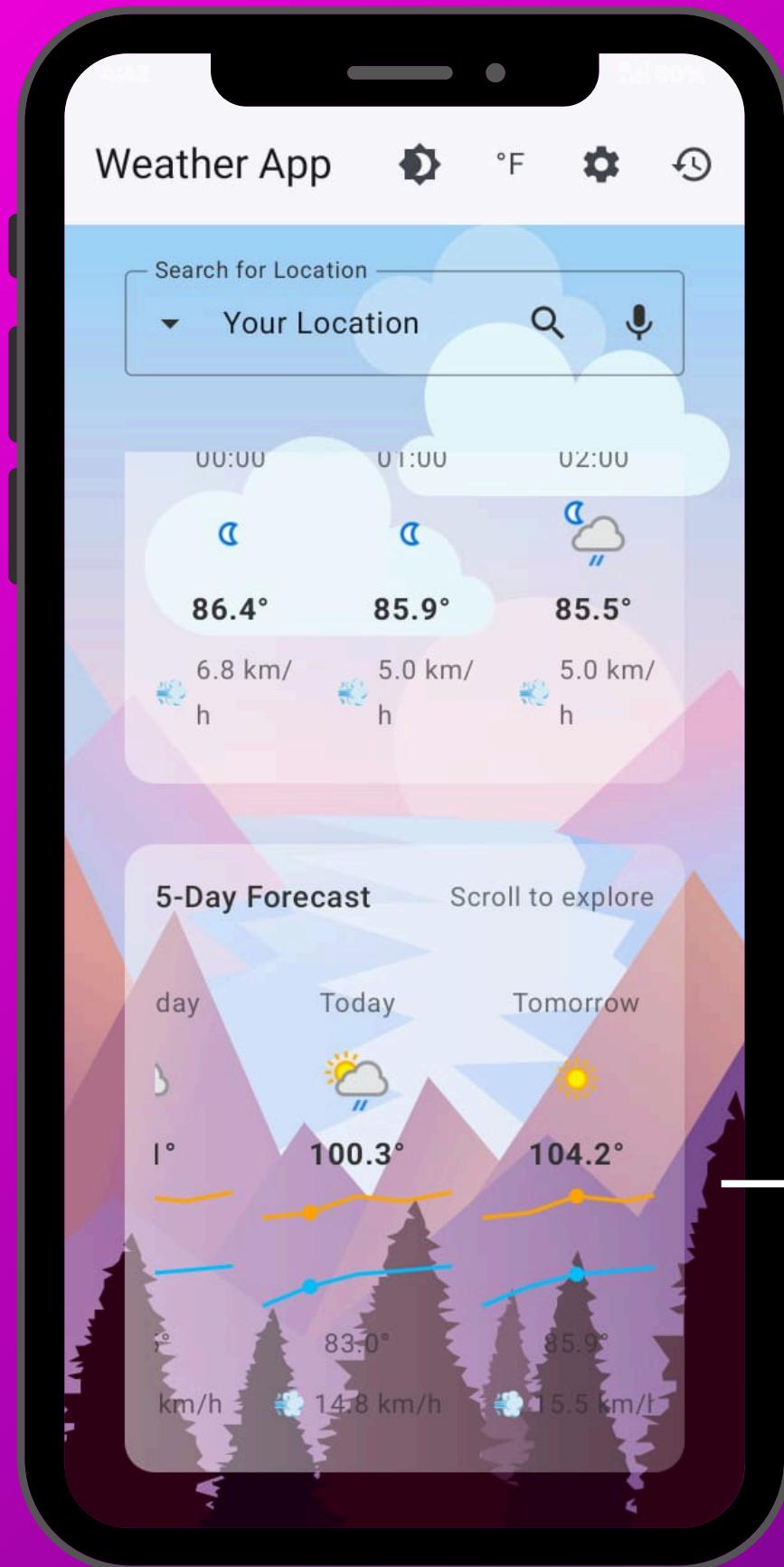
Feels Like

Wind Speed

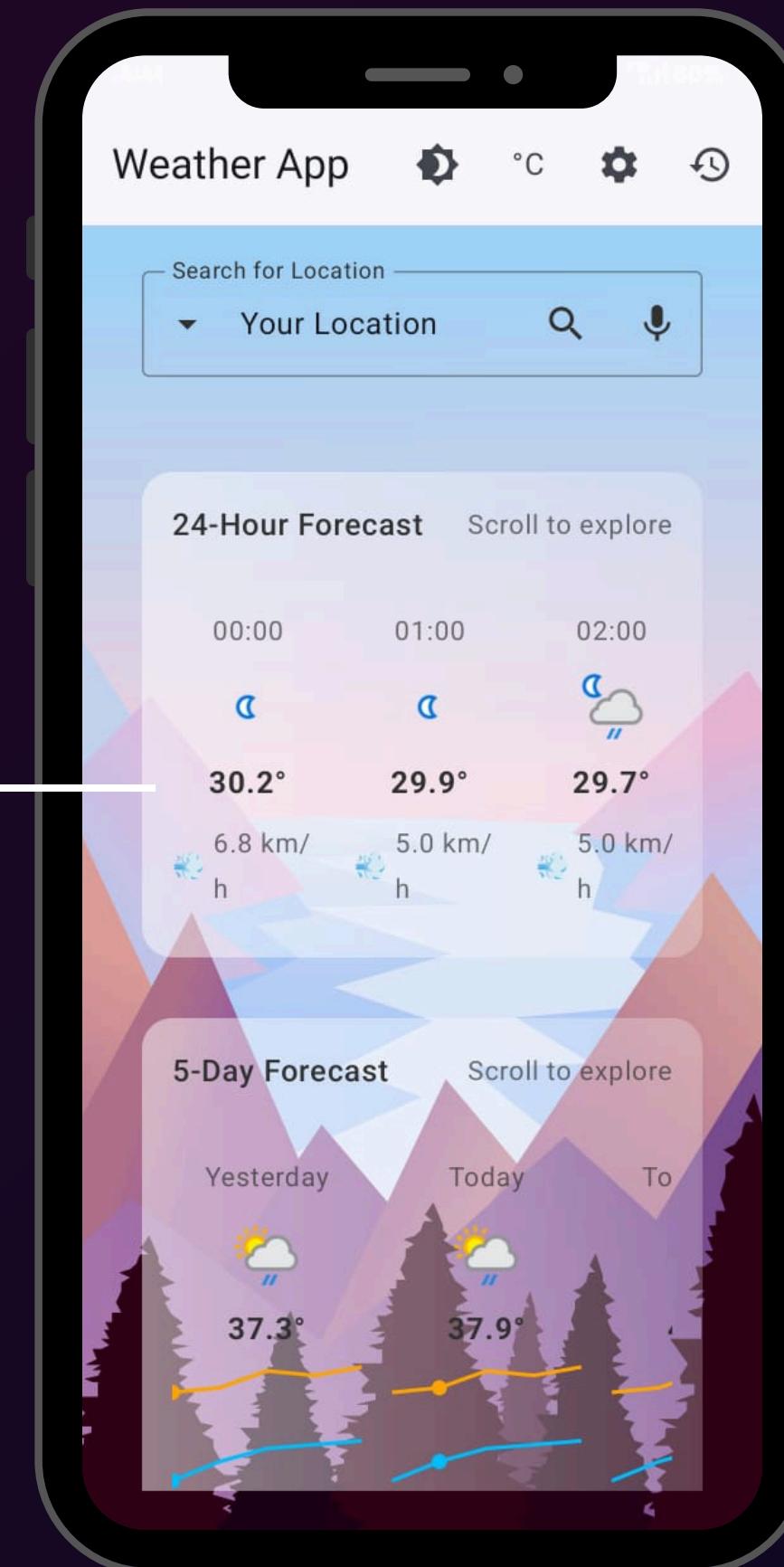
Google speech services converts audio to text and shares the text with this app.



24 Hour and 5 Day Forecast



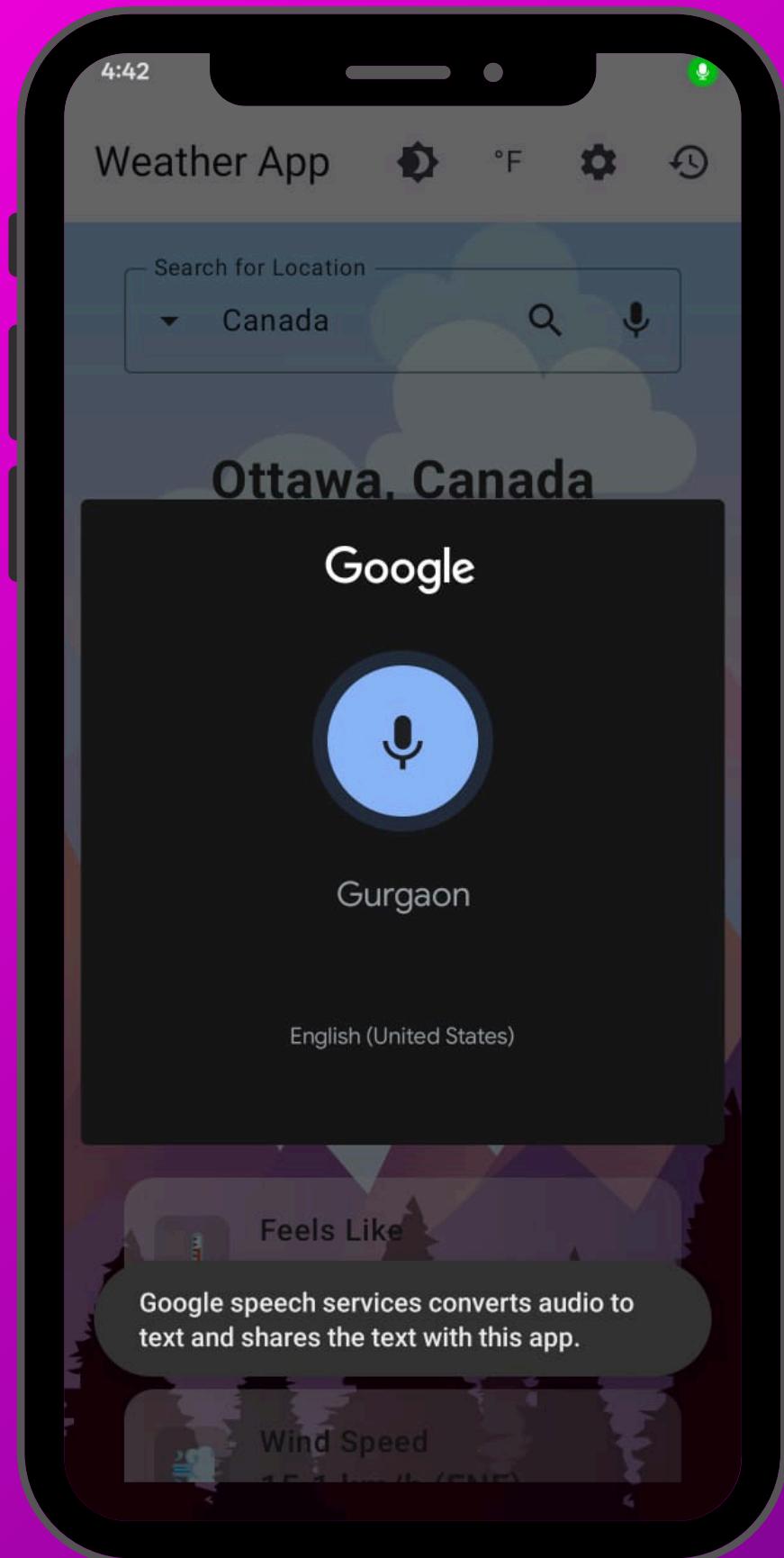
User can also see 24 Hour Forecast with proper Wind speed information



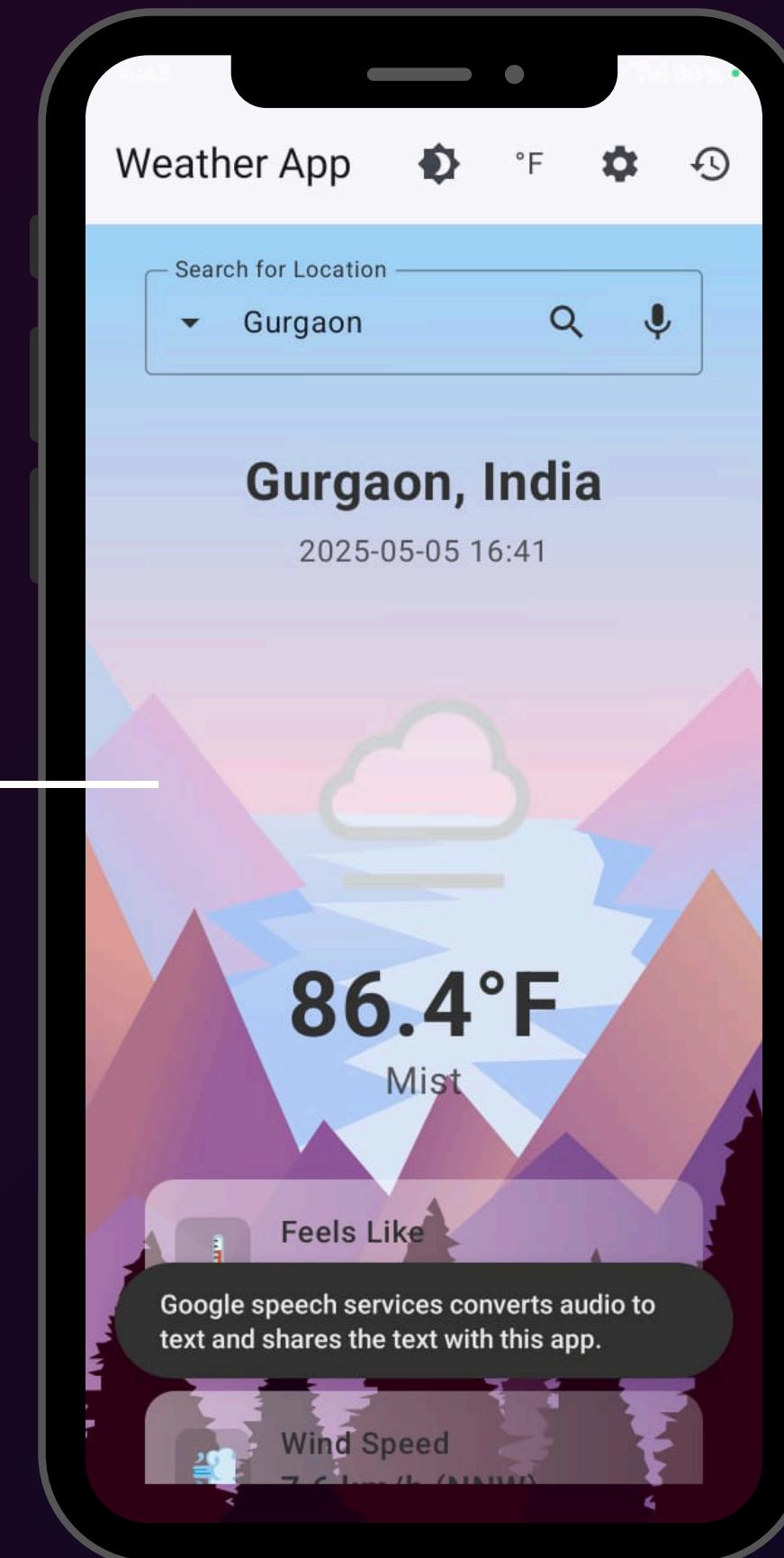
User can also see 5 Day Forecast with proper Wind speed information



Voice Search Feature



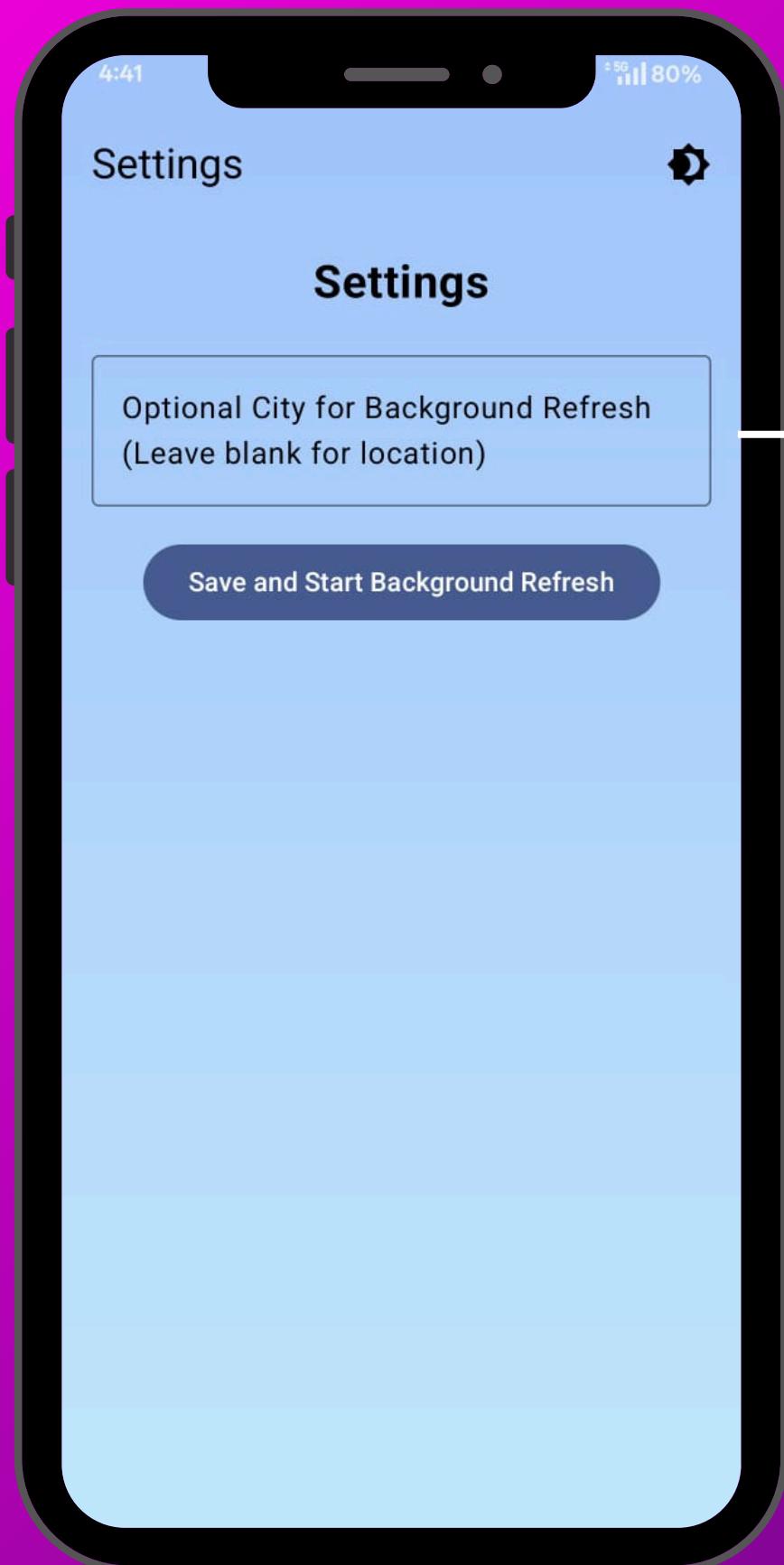
The Weather data for that location will be searched automatically.



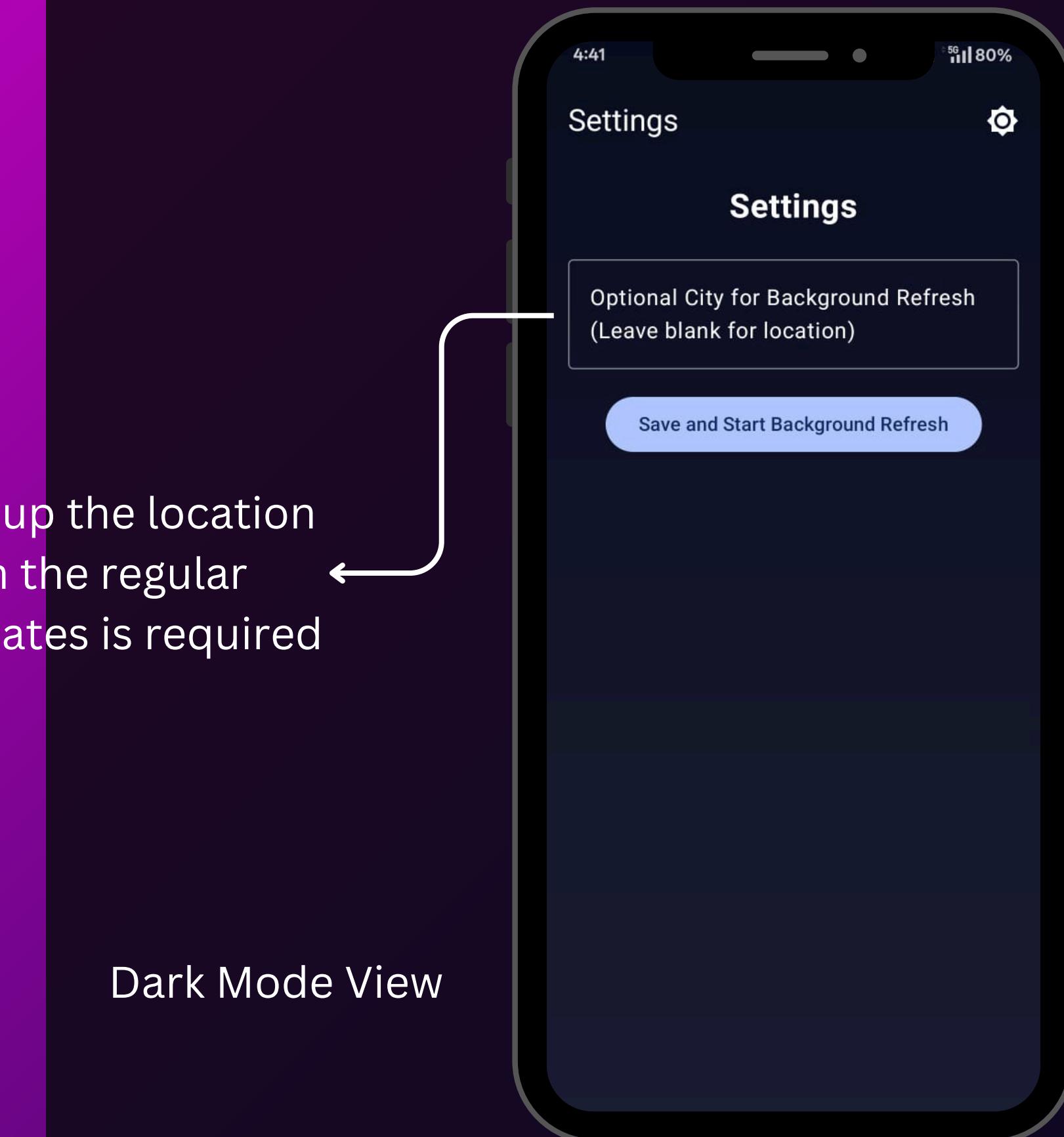
User can Directly speak the location after tapping the voice search option (here, Gurgaon)



Background Tracker



Light Mode View

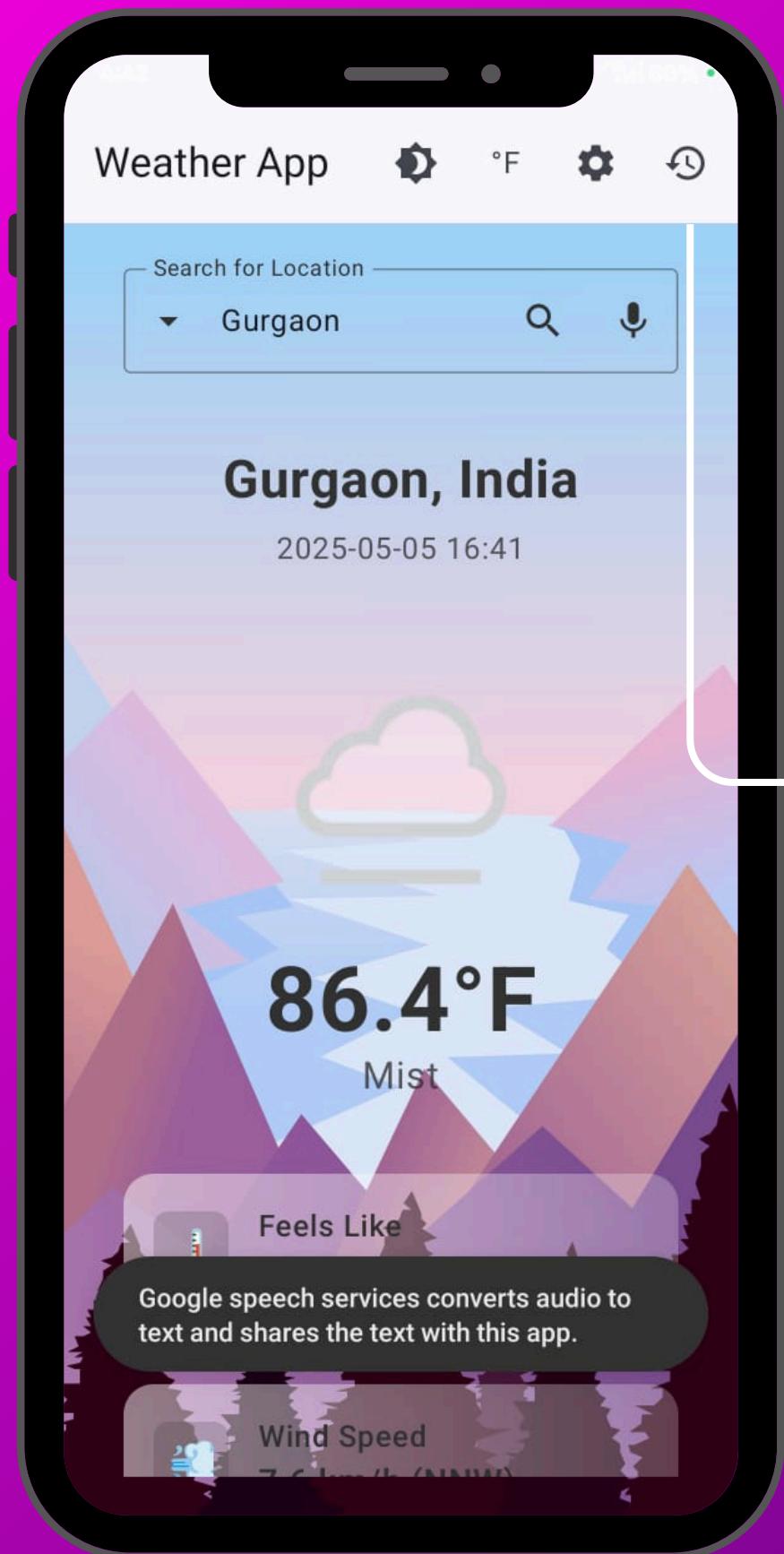


Dark Mode View

User can fill up the location
for which the regular
weather updates is required



Search history



The Search History is stored
in Room Database.
(Caching the Searched data)





Celsius and Fahrenheit Scale Change

The image displays two side-by-side screenshots of a weather application interface. Both screens show the same weather data for Noida, India, on May 5, 2025, at 16:40, with a misty mountain background.

Left Screen (Celsius View):

- Temperature: **30.2°C** (highlighted with a blue box)
- Feels Like: **28.2°C** (highlighted with a blue box)
- Wind Speed: 2.6 km/h (NW)

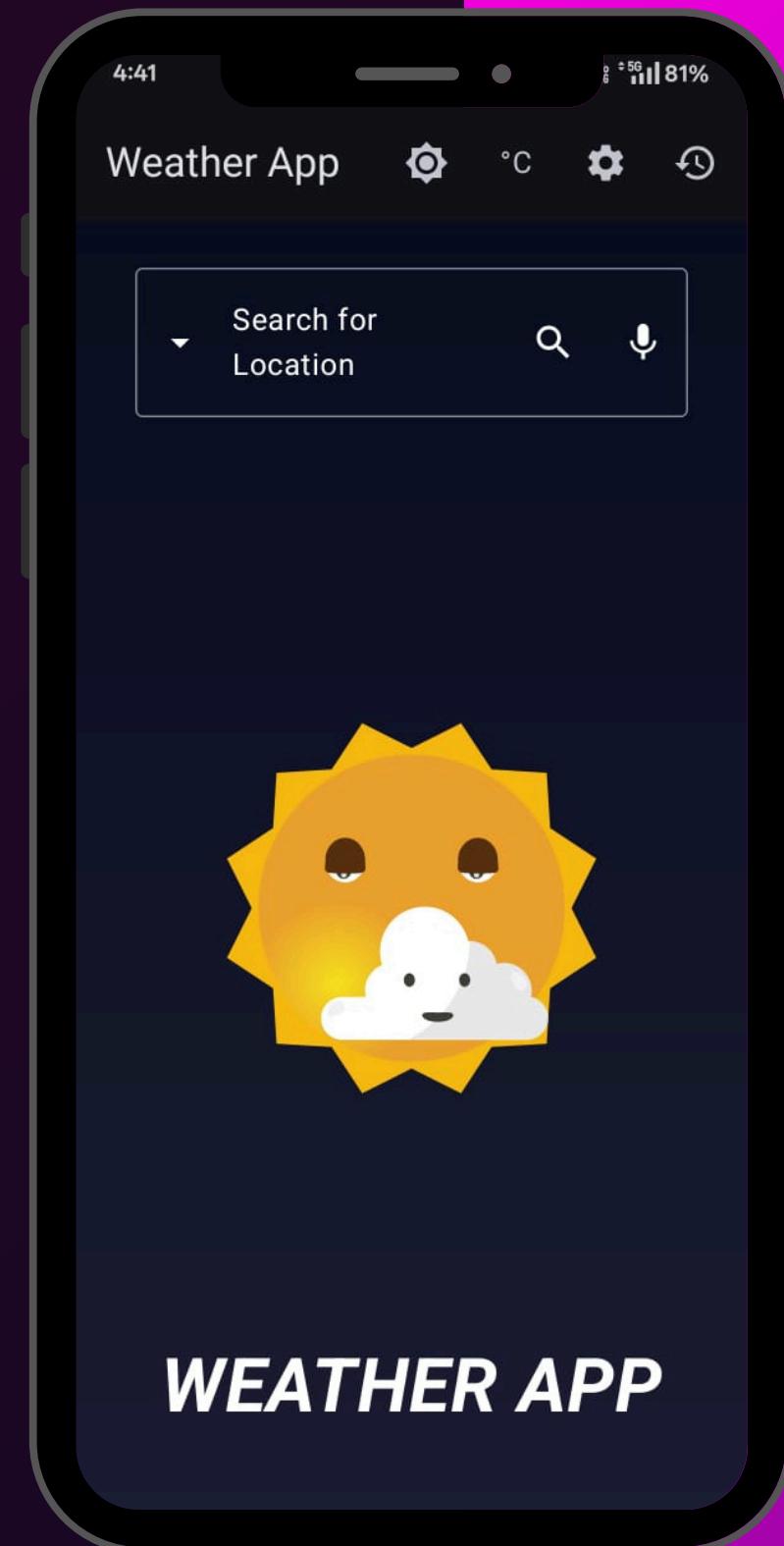
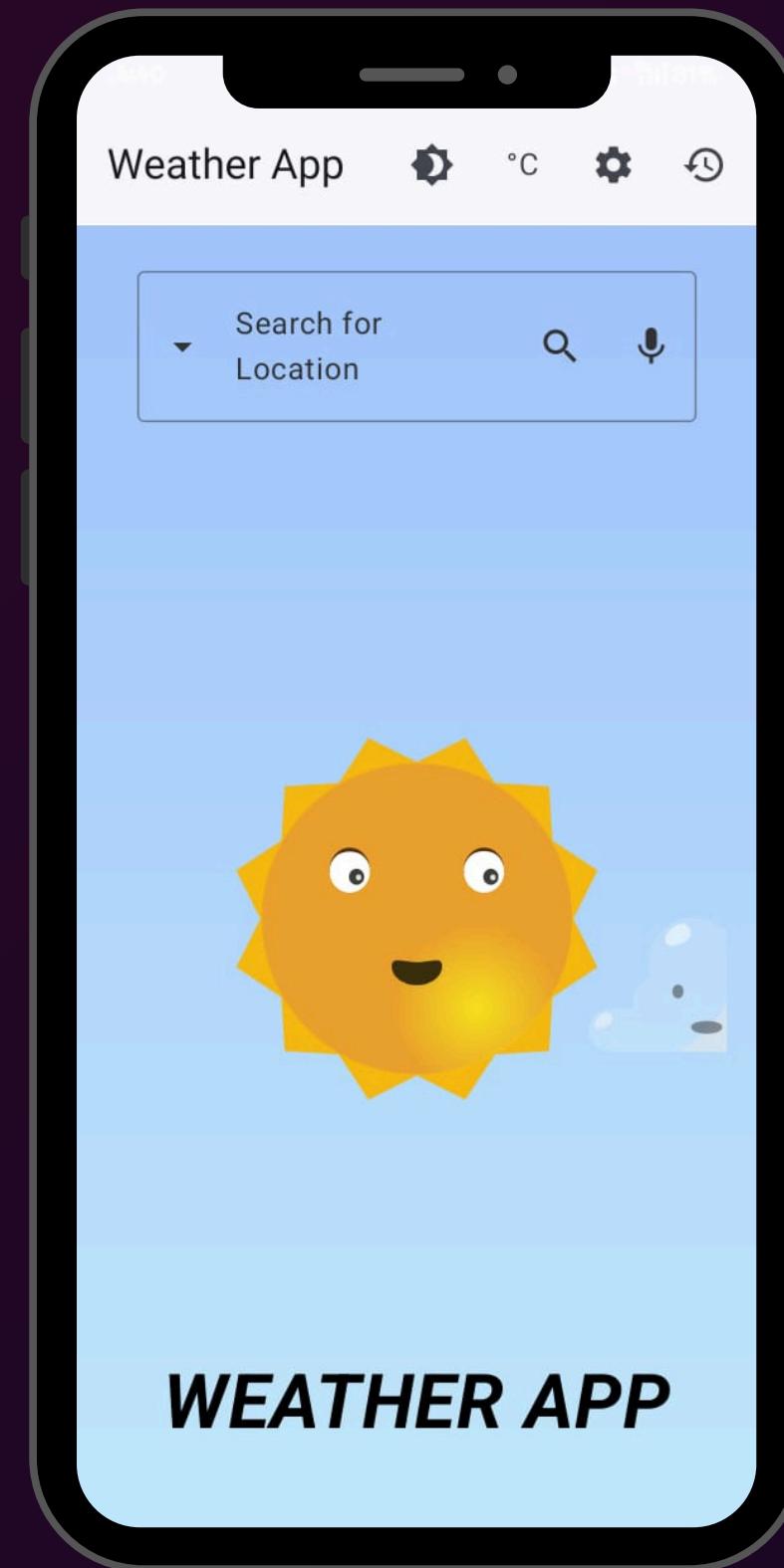
Right Screen (Fahrenheit View):

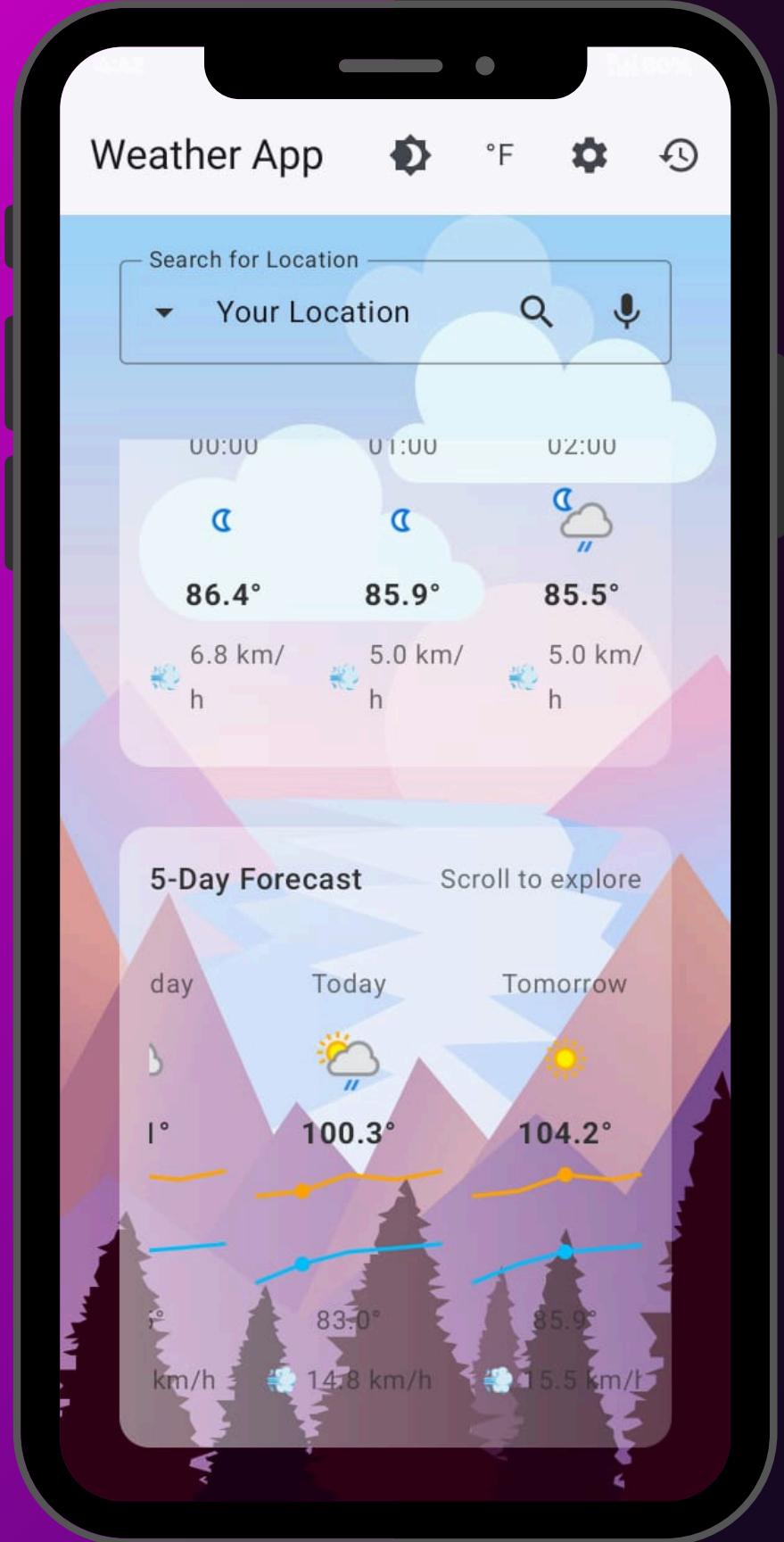
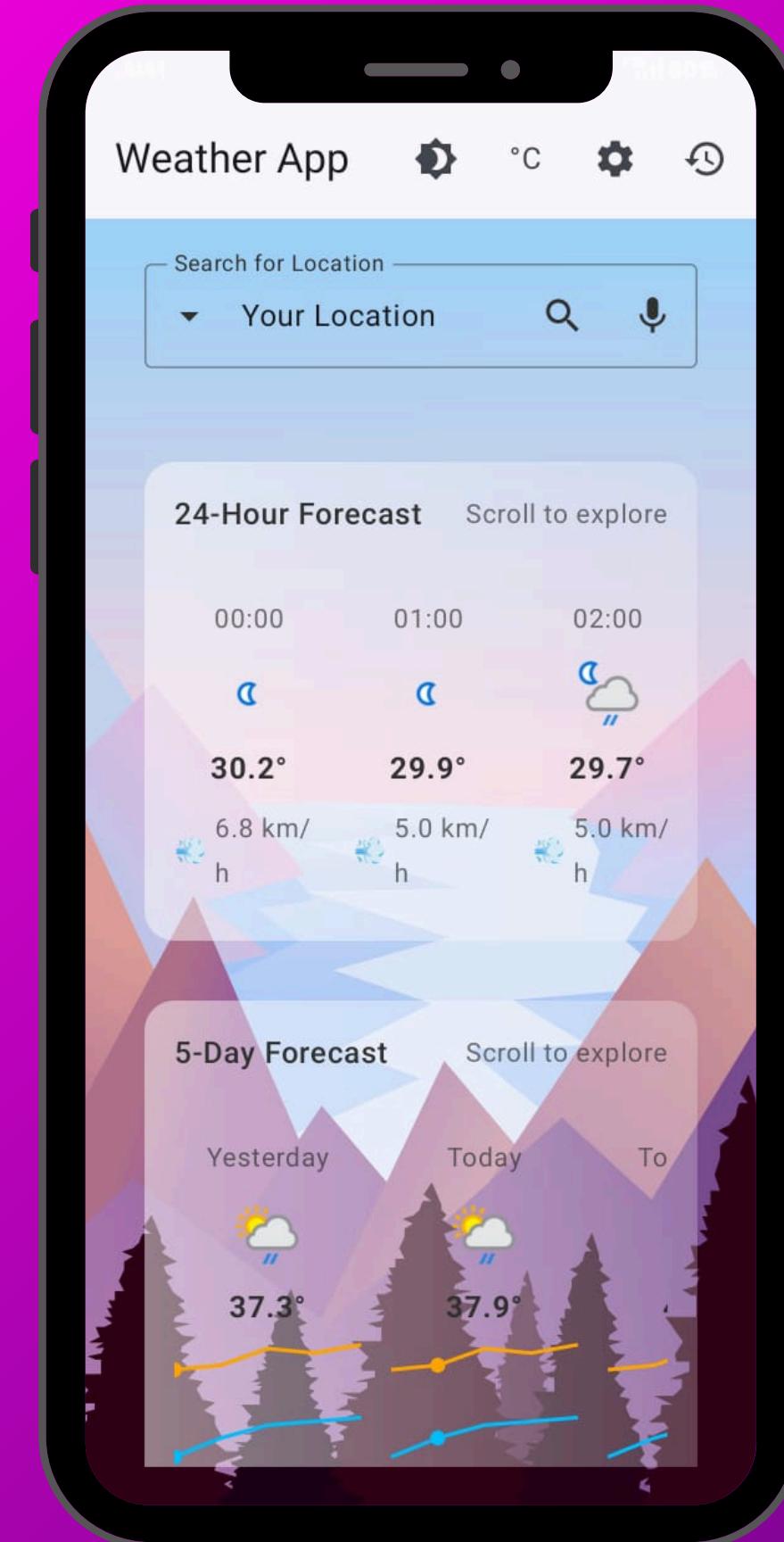
- Temperature: **86.4°F** (highlighted with a blue box)
- Feels Like: **82.7°F** (highlighted with a blue box)
- Wind Speed: 2.6 km/h (NW)

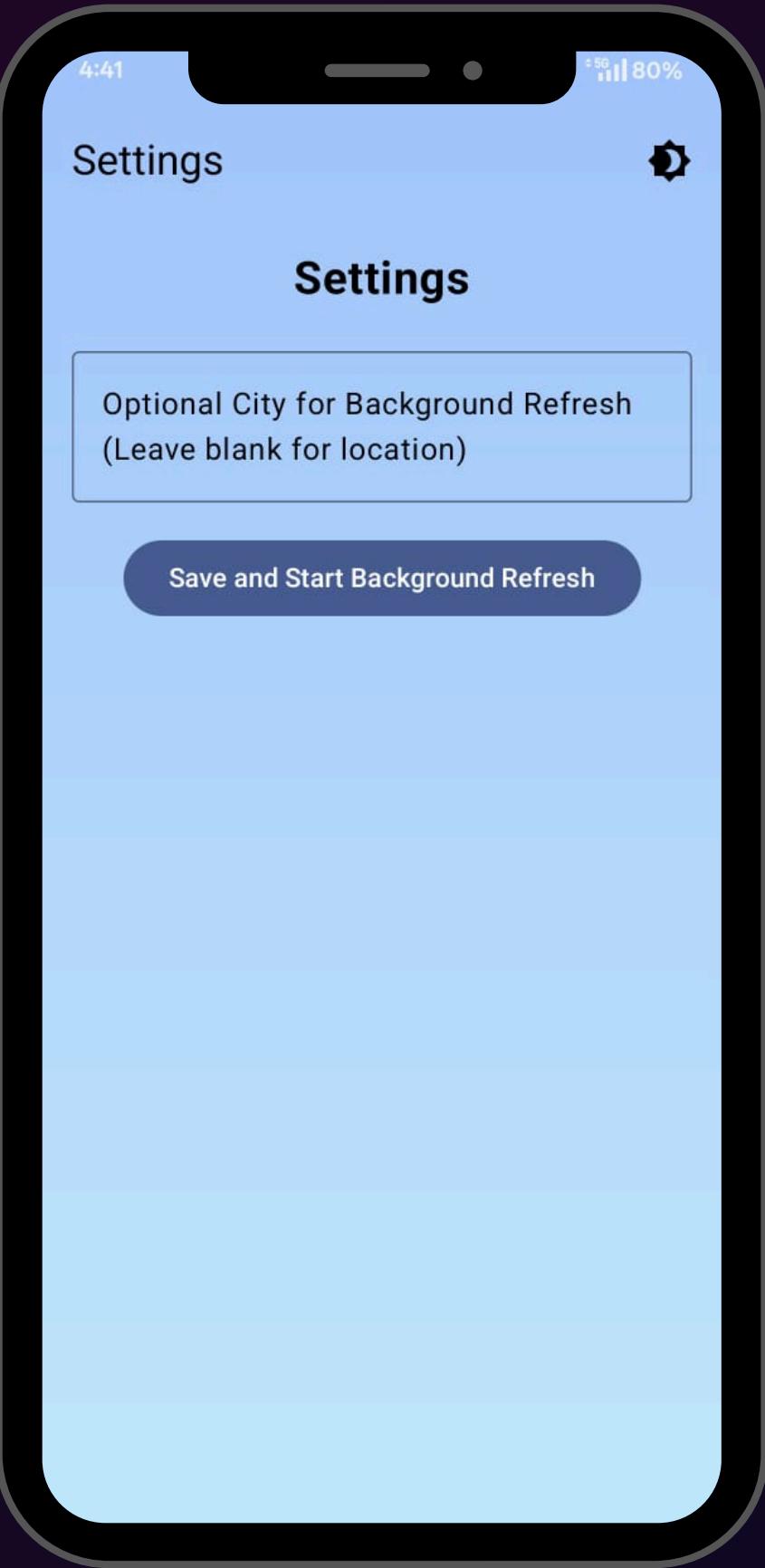
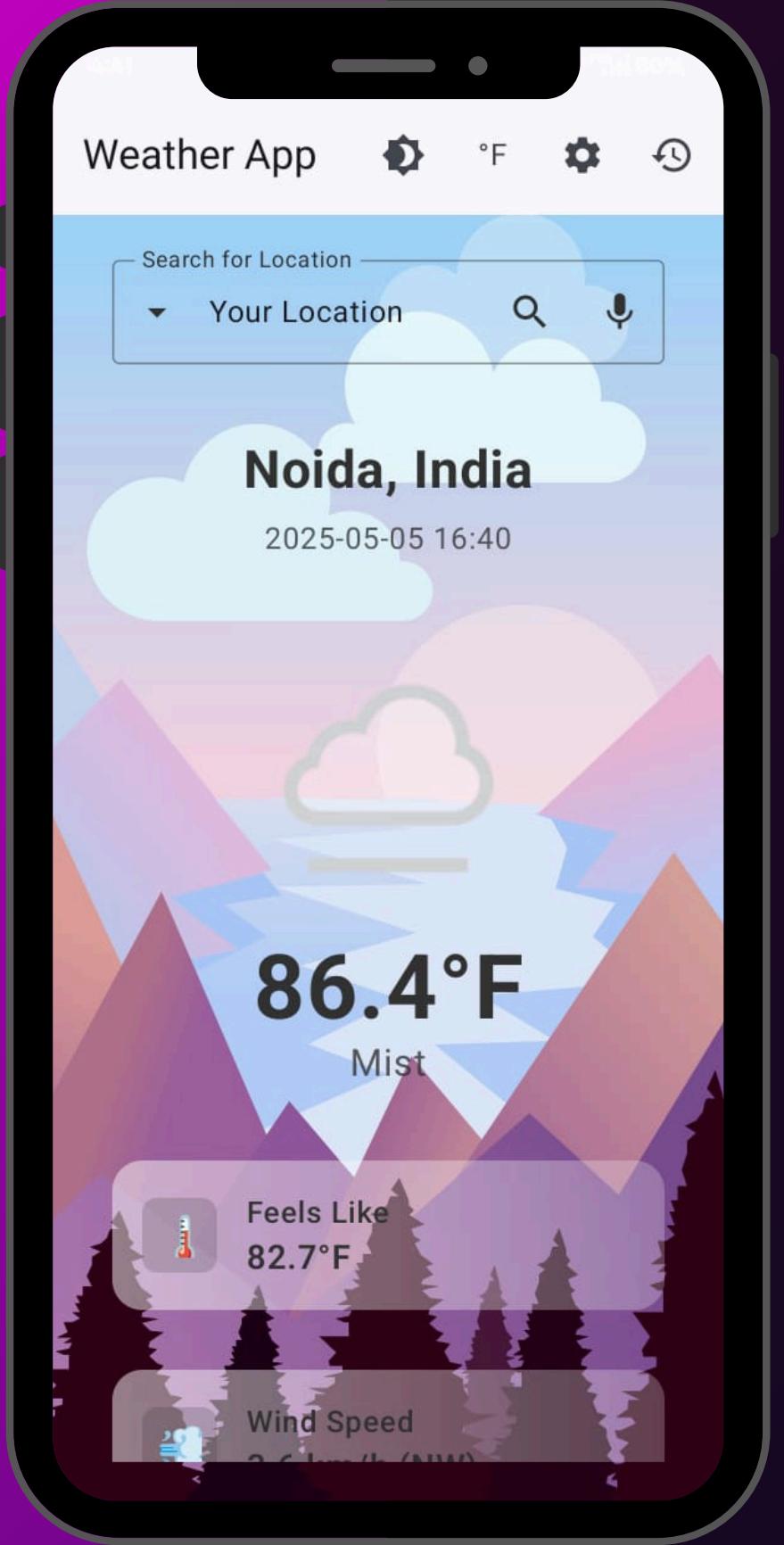
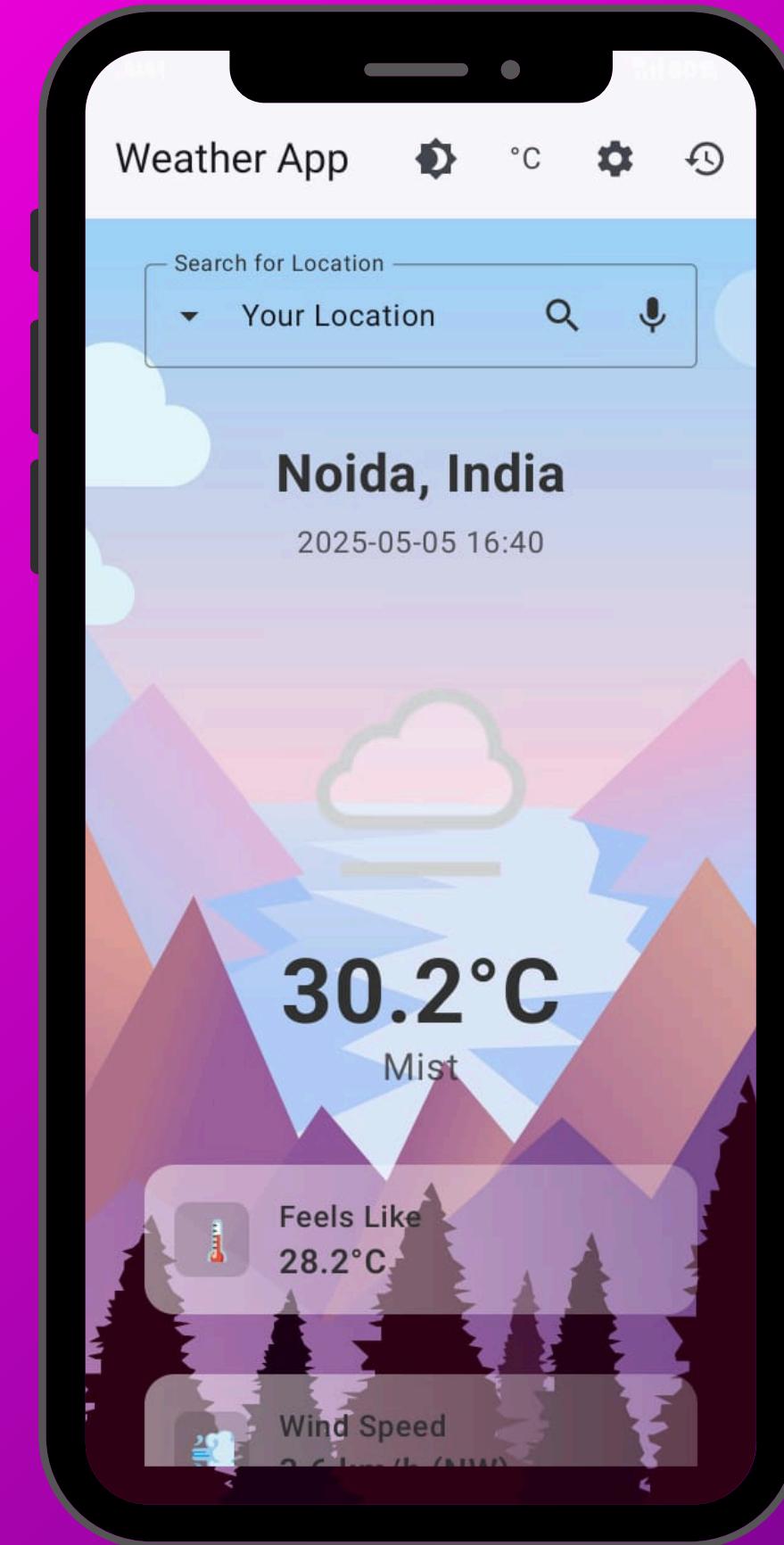
A central text block with an arrow points between the two screens:

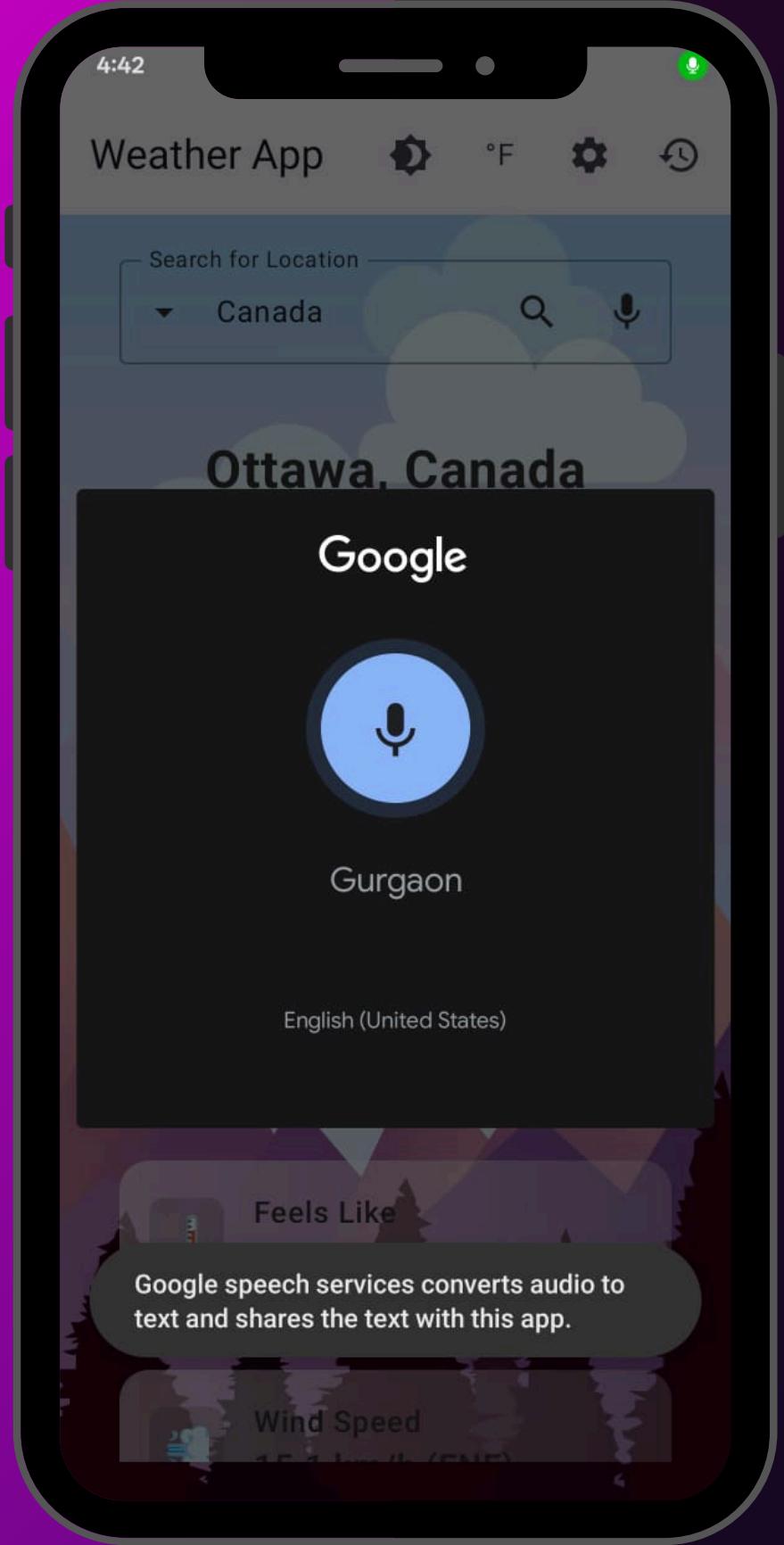
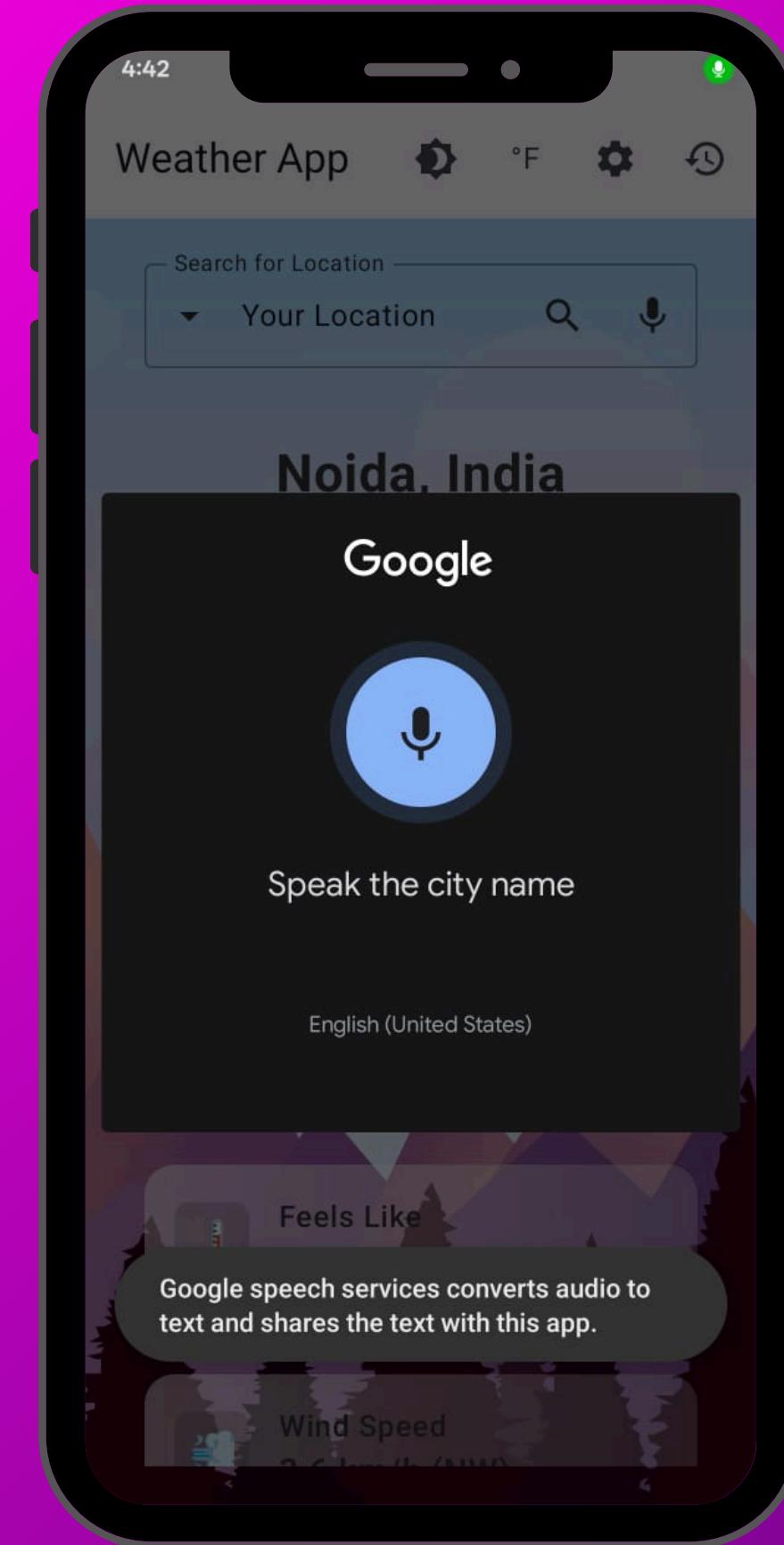
Can toggle between Celsius to Fahrenheit and vice versa

Finalized UI/UX Design for Our Weather App









THANK YOU