



**Independent University,
Bangladesh**

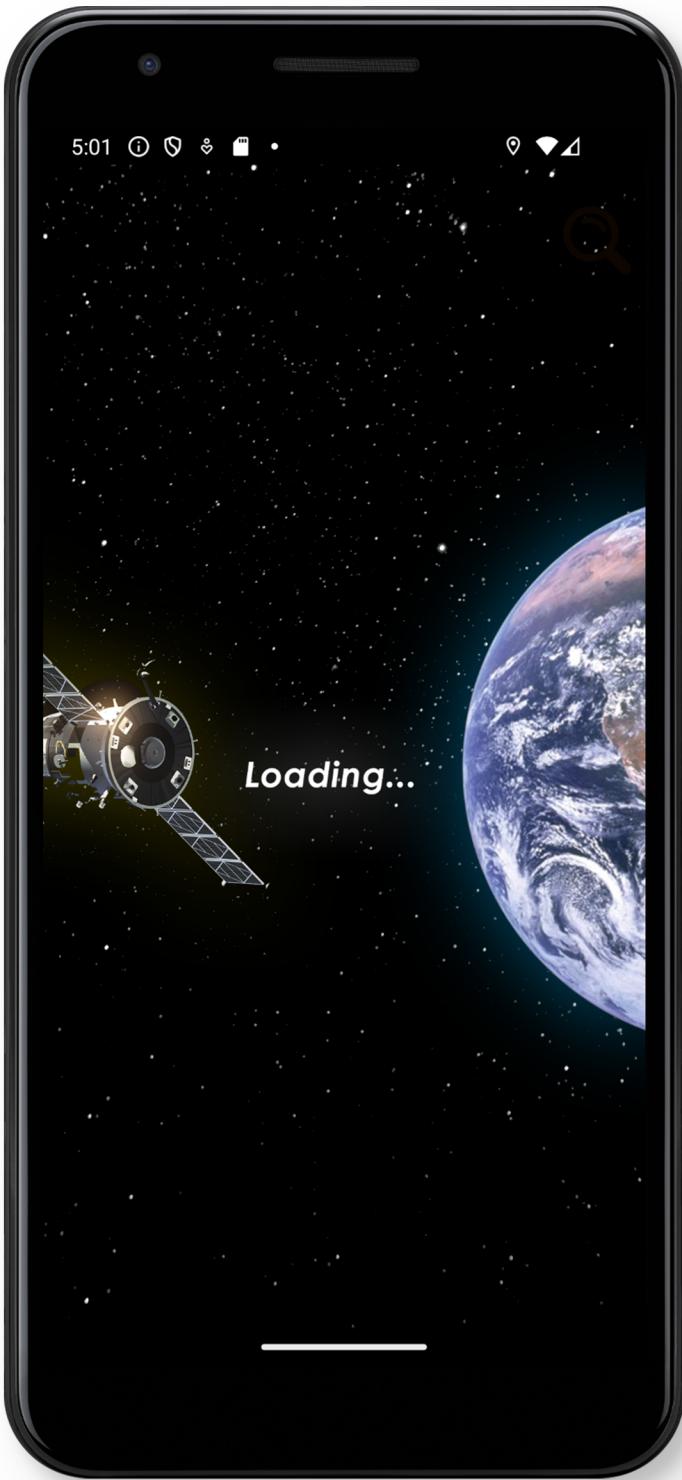
Final Project

Weather App using OpenWeatherMap API

CSE464: Mobile Application Development

Submitted to:
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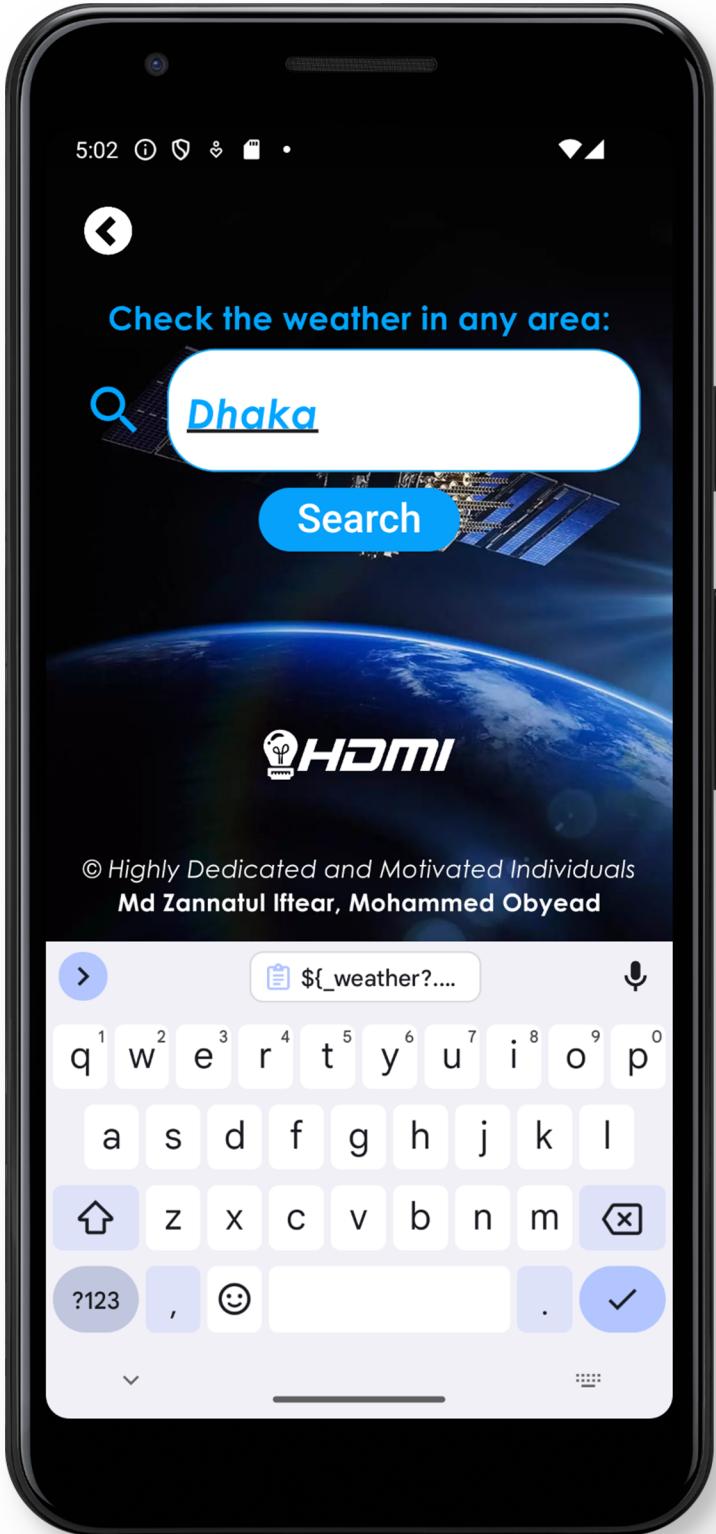
Home Page

The app opens showing the weather details for the current location of the device. Location permission is requested during the first launch.

Loading Screen

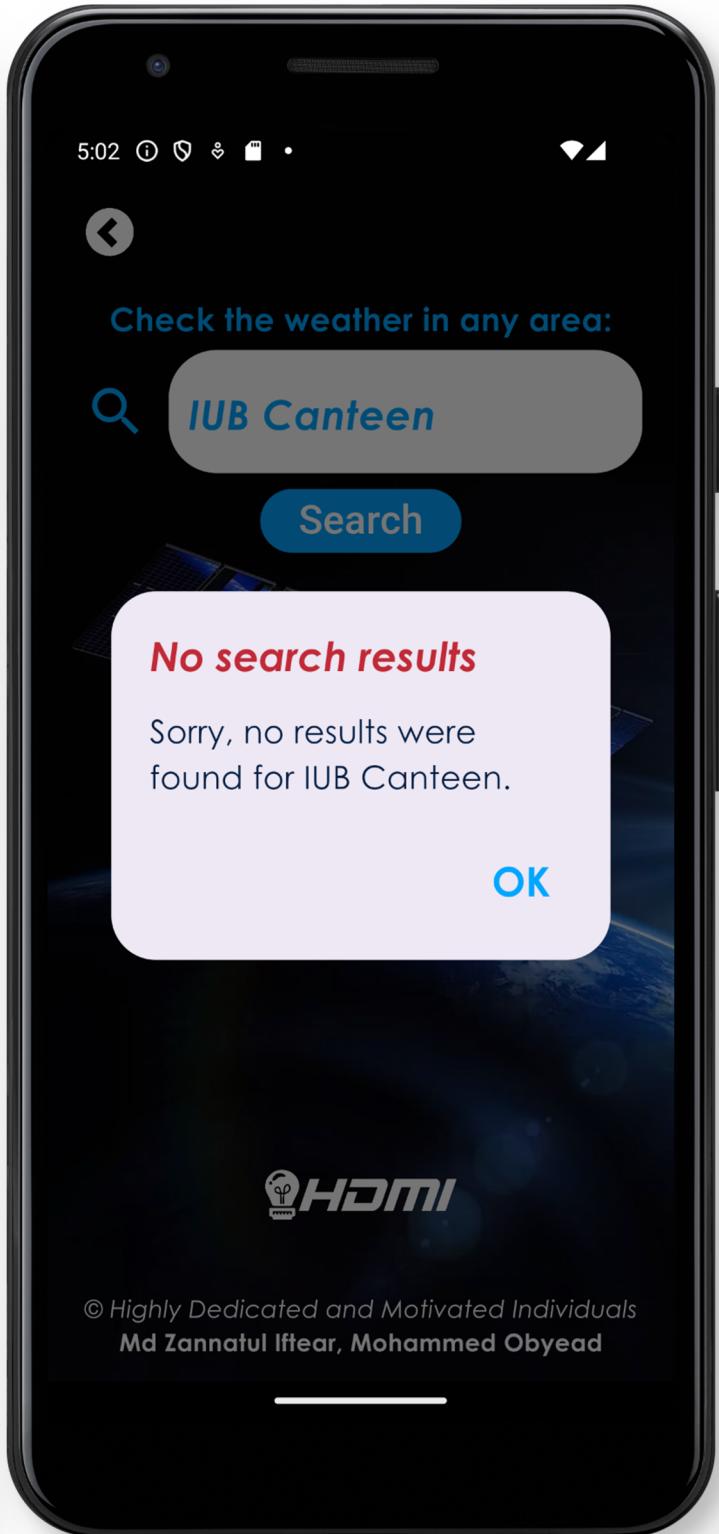
A minimalistic loading screen is displayed when the application is waiting for the API response, hence we avoid data pop-ins.





Search Page

User may search the weather in any area - this includes cities, countries and continents. The form also checks for blank inputs.



After the search button is clicked, the app does a short check using an API call to make sure the area exists in the Openweathermap API. If not found, a popup will inform the user.



Current Location

The crosshair button beside the search button on the top right will make the app fetch weather details for the current location.

Search Result

If there is a match, the user is taken back to the homepage, which shows the weather details for the search query.



Dynamic Themes

The homepage theme and background is generated by using the current weather condition and time of day. There are 12 possible combinations:

	Sunny	Cloudy	Rainy	Thunder
Day	 <p>A weather card for a sunny day during the day. It features a light blue background with a sun icon at the top right. The temperature is displayed as 23°C in large green digits. Below the temperature, the text "Haze in Demo City Feels like 23°C" is shown. At the bottom, there is a section titled "Weather Details" with icons for temperature, humidity, and wind speed, followed by specific values: Min Temp 23°C, Max Temp 23°C, Humidity 53%, and Wind Speed 3.6m/s.</p>	 <p>A weather card for a cloudy day during the day. It features a light blue background with a few clouds icon at the top right. The temperature is displayed as 23°C in large dark green digits. Below the temperature, the text "Haze in Demo City Feels like 23°C" is shown. At the bottom, there is a section titled "Weather Details" with icons for temperature, humidity, and wind speed, followed by specific values: Min Temp 23°C, Max Temp 23°C, Humidity 53%, and Wind Speed 3.6m/s.</p>	 <p>A weather card for a rainy day during the day. It features a grey background with rain icon at the top right. The temperature is displayed as 23°C in large dark grey digits. Below the temperature, the text "Haze in Demo City Feels like 23°C" is shown. At the bottom, there is a section titled "Weather Details" with icons for temperature, humidity, and wind speed, followed by specific values: Min Temp 23°C, Max Temp 23°C, Humidity 53%, and Wind Speed 3.6m/s.</p>	 <p>A weather card for a thunder day during the day. It features a dark grey background with lightning icon at the top right. The temperature is displayed as 23°C in large dark grey digits. Below the temperature, the text "Haze in Demo City Feels like 23°C" is shown. At the bottom, there is a section titled "Weather Details" with icons for temperature, humidity, and wind speed, followed by specific values: Min Temp 23°C, Max Temp 23°C, Humidity 53%, and Wind Speed 3.6m/s.</p>
Dawn/ Dusk	 <p>A weather card for a sunny day transitioning to dusk. It features a gradient background from light blue to orange. The temperature is displayed as 23°C in large dark orange digits. Below the temperature, the text "Haze in Demo City Feels like 23°C" is shown. At the bottom, there is a section titled "Weather Details" with icons for temperature, humidity, and wind speed, followed by specific values: Min Temp 23°C, Max Temp 23°C, Humidity 53%, and Wind Speed 3.6m/s.</p>	 <p>A weather card for a cloudy day transitioning to dusk. It features a gradient background from light blue to orange. The temperature is displayed as 23°C in large dark orange digits. Below the temperature, the text "Haze in Demo City Feels like 23°C" is shown. At the bottom, there is a section titled "Weather Details" with icons for temperature, humidity, and wind speed, followed by specific values: Min Temp 23°C, Max Temp 23°C, Humidity 53%, and Wind Speed 3.6m/s.</p>	 <p>A weather card for a rainy day transitioning to dusk. It features a gradient background from grey to brown. The temperature is displayed as 23°C in large dark brown digits. Below the temperature, the text "Haze in Demo City Feels like 23°C" is shown. At the bottom, there is a section titled "Weather Details" with icons for temperature, humidity, and wind speed, followed by specific values: Min Temp 23°C, Max Temp 23°C, Humidity 53%, and Wind Speed 3.6m/s.</p>	 <p>A weather card for a thunder day transitioning to dusk. It features a gradient background from dark grey to brown. The temperature is displayed as 23°C in large dark brown digits. Below the temperature, the text "Haze in Demo City Feels like 23°C" is shown. At the bottom, there is a section titled "Weather Details" with icons for temperature, humidity, and wind speed, followed by specific values: Min Temp 23°C, Max Temp 23°C, Humidity 53%, and Wind Speed 3.6m/s.</p>
Night	 <p>A weather card for a sunny night. It features a dark blue background with a moon and stars icon at the top right. The temperature is displayed as 23°C in large white digits. Below the temperature, the text "Haze in Demo City Feels like 23°C" is shown. At the bottom, there is a section titled "Weather Details" with icons for temperature, humidity, and wind speed, followed by specific values: Min Temp 23°C, Max Temp 23°C, Humidity 53%, and Wind Speed 3.6m/s.</p>	 <p>A weather card for a cloudy night. It features a dark blue background with a few clouds icon at the top right. The temperature is displayed as 23°C in large white digits. Below the temperature, the text "Haze in Demo City Feels like 23°C" is shown. At the bottom, there is a section titled "Weather Details" with icons for temperature, humidity, and wind speed, followed by specific values: Min Temp 23°C, Max Temp 23°C, Humidity 53%, and Wind Speed 3.6m/s.</p>	 <p>A weather card for a rainy night. It features a dark blue background with rain icon at the top right. The temperature is displayed as 23°C in large white digits. Below the temperature, the text "Haze in Demo City Feels like 23°C" is shown. At the bottom, there is a section titled "Weather Details" with icons for temperature, humidity, and wind speed, followed by specific values: Min Temp 23°C, Max Temp 23°C, Humidity 53%, and Wind Speed 3.6m/s.</p>	 <p>A weather card for a thunder night. It features a dark blue background with lightning icon at the top right. The temperature is displayed as 23°C in large white digits. Below the temperature, the text "Haze in Demo City Feels like 23°C" is shown. At the bottom, there is a section titled "Weather Details" with icons for temperature, humidity, and wind speed, followed by specific values: Min Temp 23°C, Max Temp 23°C, Humidity 53%, and Wind Speed 3.6m/s.</p>