5COSC023W - MOBILE APPLICATION DEVELOPMENT
Lecture 8: Developing a Weather App

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The Weather App

In this lecture, a weather app will be developed using the
https://api.openweathermap.org/ Web service.

1. The weather application will be displaying the temperature for a city that the user enters.

2. The application also displays the sunrise, sunset and description (e.g clear sky) information from the JSON data received .

3. The application displays an icon representing the current status (e.g. clear sky) using the value of the `icon` key of JSON.

4. The application has a button `Historical data` which will display the weather for the chosen city from the database table, i.e. the displayed data will include date, time and the weather at that point in time.

The Weather App - Instructions

1. The documentation of the format for URL queries sent is at: `https://openweathermap.org/current`.

2. The URL you should be using for a query looks like this: `https://api.openweathermap.org/data/2.5/weather?q=London&units=metric&appid=YOUR_OWN_API_KEY`

3. Goto to the website and sign in for a free account (`https://openweathermap.org/price` and click on the Get API Key under the free subscription plan). You need this in order to obtain the API key (which might take up to 2 hours to be activated, make sure you provide an email address and confirm your registration when you receive the email).

The Weather Code

The code can be found in the following link:

`https://dracopd.users.ecs.westminster.ac.uk/DOCUM/courses/5cosc023w/weather_app.zip`