NOTE:

* you must declare the ACCESS\_NETWORK\_STATE permission in the project manifest!
* Chicago Lat and Long are default vals for the app!
  + lat: decimal latitude value *(use 41.8675766 as the default latitude value)*
  + lon: decimal latitude value *(use -87.616232 as the default latitude value)*
* permission to add in manifest for internet:

Graphical user interface, text

Description automatically generated with medium confidence

API Key: 598e329789d9666d33a43972c46e0ba8

Uses:

* Multiple Activities
* Internet API,
* Recycler Views,
* Option-Menus,
* Multi-threads,
* JSON Data,
* Time conversion,
* Dialogs,
* Images

Highlights

* Displays weather data (current weather, hourly forecast (48 hrs), daily forecast (7days) for specified location
* 2 activities:
  + Home weather screen
  + Daily forecast screen
  + Two Layouts; Portrait & Landscape
    - Home Weather screen WILL NEED a separate landscape layout
    - Daily Forecast shouldn’t
  + Daily Forecast comes after tapping Calendar options-menu icon
  + Location for weather can be changed by tapping location options-menu icon

**Internet Data**

Weather data from : (<https://openweathermap.org>).

Create API Account at: <https://home.openweathermap.org/users/sign_up>. To get the data

* Get ‘My API Keys’ by clicking on your username on upper-right.
  + Will use *OneCall API* endpt; <https://openweathermap.org/api/one-call-api>).
* Call:

https://api.openweathermap.org/data/2.5/onecall?lat=***#########***&lon=***#########***&appid=***your\_api\_key***&units=***units\_selection***&lang=en&exclude=minutely

* • lat: decimal latitude value *(use 41.8675766 as the default latitude value)*
* • lon: decimal latitude value *(use -87.616232 as the default latitude value)*
* • appid: your openweathermap.org api key
* • units: the selected units to be used in the response (imperial or metric)
  + Returns a JSON; Data to use is highlighted in yellow

Application

Graphical user interface, text, application

Description automatically generated

Diagram

Description automatically generated

Options Menu

* Change Units

HAVE TO HANDLE:

* No internet connection
* Invalid address input
* Orientation rotations