Weather App

Android Assignment

March, 2021

Assignment Purpose

The purpose of this test is to evaluate the problem solving skills, UX judgement and code quality of the candidate

Brief Description

Weather, everybody wants to know how it is going to be during the week. Will it be rainy, windy, or sunny? Luckily for us, in the information age, there are open APIs to retrieve information about it.

For this assignment you will be using the API from: http://openweathermap.org/api . The API key is provided below, or you can request your own by registering on the website for free.

Functional Requirements

Design

Your app should at least contain the following screens:

- Home screen:
  - Showing a list of locations that the user has bookmarked previously.
  - Add swipe to delete to locations list
  - Add locations by placing a pin on map.
- City screen: once the user clicks on a bookmarked city this screen will appear. On this screen the user should be able to see:
  - Today's forecast, including: temperature, humidity, rain chances and wind information
- Help screen (bonus): The help screen should be done using a WebView, and contain information of how to use the app, gestures available if any, etc.

How navigation occurs, or how elements are placed on the screen is open for interpretation and creativity.

Technology Restrictions

Read Carefully!

- Alpha/beta versions of the IDE are forbidden, you must work with the stable version of the IDE
- The API has to be consumed in JSON format
- The UI has to be responsive (landscape and portrait orientations, and tablet resolutions must be supported)
- Language can be Java or Kotlin
- The coordinator layout must be used at least in one of the screens
- UI has to be implemented using 1 activity with multiple fragments
- Only 3rd party libraries allowed are: GSON or Jackson
- Compatible with Android 6.0+

Helpful Information

API information

API Key: eadfece3da874d6913eb9b3093f2e92e
Today's forecast information: http://openweathermap.org/current

Example of use:
http://api.openweathermap.org/data/2.5/weather?lat=0&lon=0&appid=eadfece3da874d6913eb9b3093f2e92e&units=metric

Delivery

The code has to be published on GitHub or Bitbucket. We want to see the progress evolution.

Good luck!

... and show us what you got!