**Overview**

The purpose of this assignment is to create a simple App to display the current weather forecast using the OpenWeatherMap free weather API. Details of this API can be found at http://openweathermap.org/API. You will need an API key to request this data…

API Key : 5ad7218f2e11df834b0eaf3a33a39d2a

Example Usage : curl "http://api.openweathermap.org/data/2.5/weather?id=7778677&appid=5ad7218f2e11df834b0eaf3a33a39d2a"

**Objectives**

* Design and create a simple App that displays the current weather forecast for your devices current location, and display location and all relevant information returned in the UI. Include a 1-page high level design document that should include all design decisions made, call flows and a description of the App
* Send a HTTP request to the OpenWeatherMap API to retrieve the current local weather forecast, and parse the response.
* Persist the response so that it can be retrieved again without having to make a further network request.
* Schedule a request for every 2 hours to update and persist the latest weather response. There should not be more than 1 request in a 2-hour period. All background requests should only be made if Wi-Fi is connected.
* Produce clean and well formatted/documented code.
* This is version 1.0 of the app. Design a version 2.0 of the app. The MVP for version 2.0 contains the following new features:
  + Favorite city support. A new tab which contains a configurable list of cities with their current temperature.
  + Weather forecasts for your current location for the next 5 days
  + Daily notifications of the next day’s weather.

The high-level design for these new features should include proposed new call flows, assumptions and any unknowns you want to call out.

**Timescale**

We recommend that you spend no more than a few hours designing and developing this App. We are mainly looking at how you approach this assignment and your coding style and ability.