iOS Candidate Assessment

We expect you to spend around 3 hours however you are welcome to take longer if required.

Weather History Framework

Please build an iOS framework with these functionalities:

1. Can get the current weather
   a. In a given city
   b. At a given longitude and latitude
   c. At the user's current location (You should use the GPS of the device to find out the user's location)

2. Can save the weather at the user's current location
   a. This should persist across app launches
   b. The minimum that should be saved is:
      i. The name of the weather (e.g. "Clouds", "Rain", "Clear")
      ii. A short description of the weather (e.g "light rain")
      iii. The date and time the weather was saved
      iv. The name of the city the weather was saved from
      v. The longitude and latitude the weather was saved from

3. Can query the history of saved snapshots of the weather

Things to consider

- Your solution must be either a static library or a dynamic framework
- Your framework can be written in either Swift or Objective C. We use both!
- You should write tests
- All code that you submit must compile
- You are welcome to use any third party dependencies
- You should think carefully about the public interface of your framework.

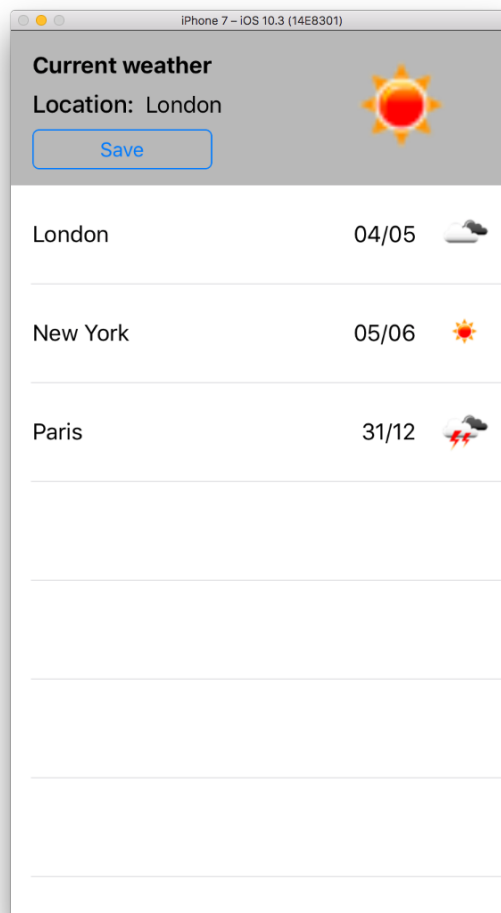You should use this framework to power the provided template app.

Weather History App

You are provided with a template app with a view controller. The view controller is given to you with fake data.

Please update this app to include your weather history framework and use it to populate the contents of this view controller.

1. The header section should show the current weather at the user's current location (You should use the device's GPS to find out the user's location)
2. When the user presses the save button you should save the current weather.
3. The table view below the header should show the user's previously saved weather history (in order, most recent at the top)
4. When the app is opened the Header should refresh to show to current weather and the table view should show the weather saved in previous uses of the app.

Included in the project is a gif demonstrating the functionality of the save button.

Weather API

You must use the **open weather map API** as the source of this data. If you need it the documentation for the weather API can be found here: https://openweathermap.org/current

You will need to pass a App ID to use the API. This is passed as a HTTP URL parameter. Please use:

```
Key: "APPID"
Value: "b83c13b2ab60f7ec52b12d6fcf3f9f42"
```

Example usage:
```
## Current weather in city
curl
"http://api.openweathermap.org/data/2.5/weather?APPID=b83c13b2ab60f7ec52b12d6fcf3f9f42&q=London"
```

You can also get weather icons from this API using this endpoint: "http://openweathermap.org/img/w/<Icon code found in response from previous API response>.png

Example usage:
```
## Current weather in city
curl "http://openweathermap.org/img/w/03d.png"
```