



Release Note

Weather Mobile Application

iOS + Android

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PLANNING

INITIAL RESEARCH

There are a variety of weather mobile apps in Google Play. Those apps have great features and functionalities to satisfy users. However, according to my research, only a few of them have friendly user interface and human centered interactions, which means that a lot of them might be difficult to be navigated even though they provide enough functionalities. It is not convenient for new users. Therefore, I would like to do improvements on weather mobile apps.

THE OBJECTIVES INCLUDE:

The mobile app allows people to check out the weather in multiple cities worldwide. The weather data is dynamic, which means that users can see the weather anytime. The mobile app not only show the weather, temperature and humidity, but it also uses various icons to represent the weather accordingly. It will be easy to read and use.

Besides, the mobile app will have friendly user interfaces and human centered interactions. Users can find the information they want in a short time and limited clicks. It is easy to be navigated than other weather mobile apps in the market.

Development environment:

React Native

Open Weather Map API documentation:

<http://api.wunderground.com/api/28252535e4062e2d>

Current weather API

<http://api.weather.com/v1/geocode/e45ff1b7c7bda231216c7ab7c33509b8>

SCENARIO ANALYSIS

- **Screen and Interaction Analysis**

The users will use this mobile app on Android or iOS smart phones. All the information of this mobile app will be displayed full screen. Basically, the interactions include touch and click. For example, when users would like to view weather information, they click the icon to open this app; when they want to add a new city, they click the add icon and type in the city that they want.

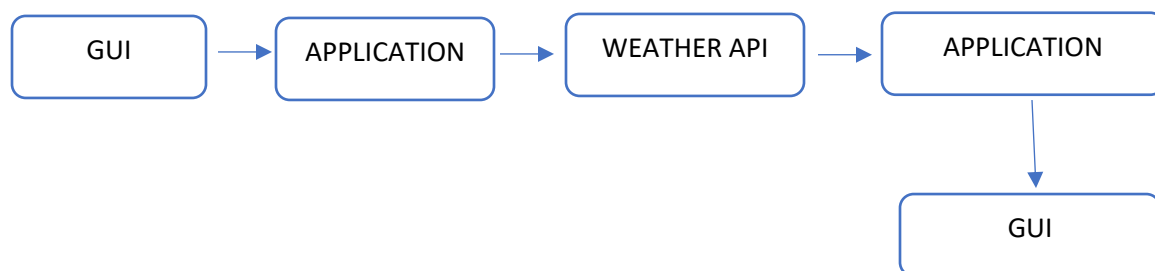
- **Usage Analysis**

Users can use this mobile app on the morning every day at home, on their way to travel, and other situations as long as they want to know weather information.

- **Environment Analysis**

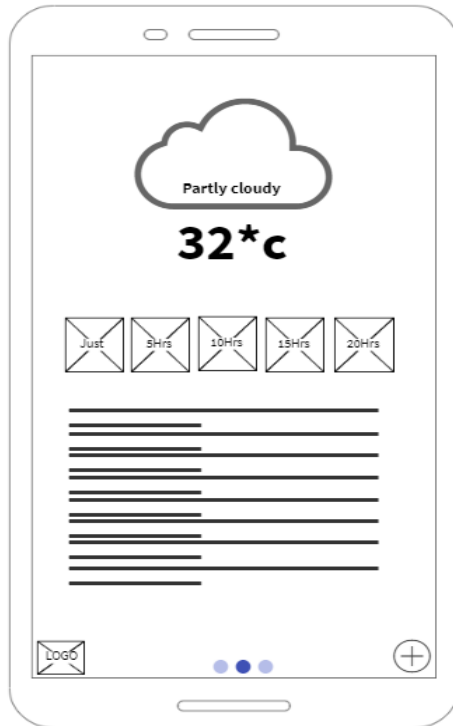
This mobile app only can be used on smart phones, not tablet devices. It will access to the wunderground weather API with the help of <https://weather.com/> Personal weather station (PWS) to get the weather information. It sends requests, and then get responses from the API through the internet.

ARCHITECTURAL DESIGN

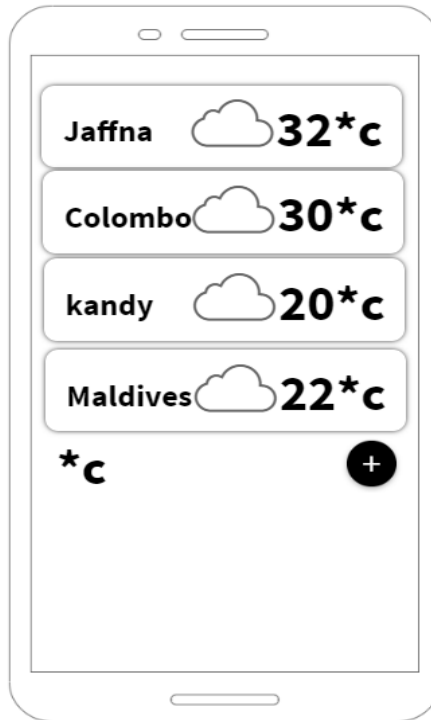


NAVIGATION AND USER INTERFACE DESIGN

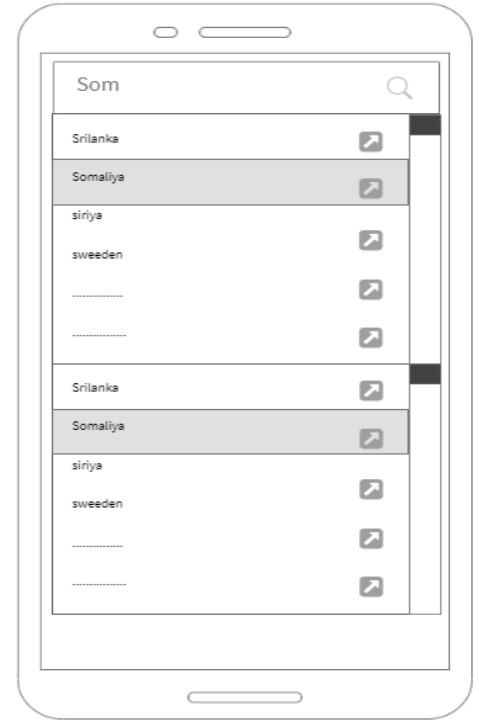
WIREFRAMES



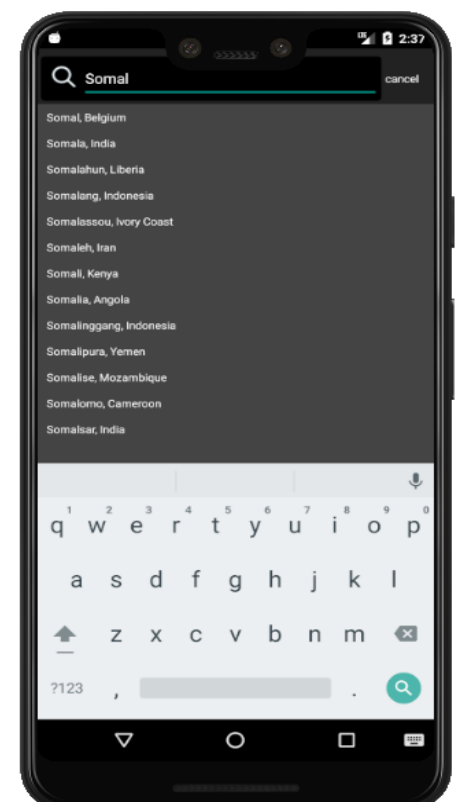
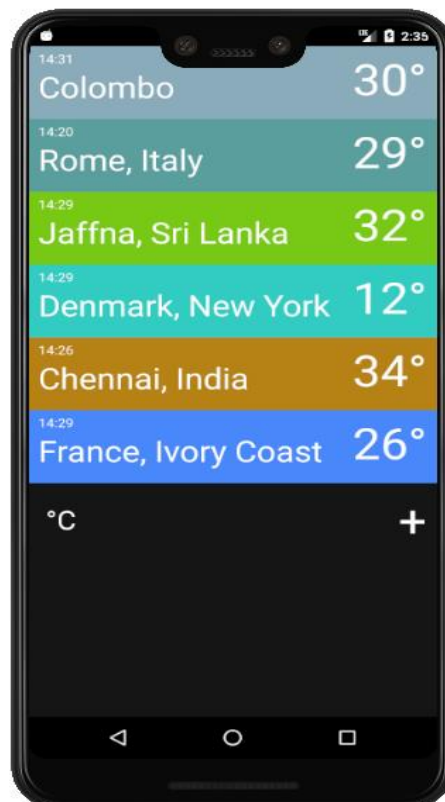
Main Screen



Select Location List view



Search suggestion



FEATURES OF APPLICATION

When users open this mobile app, they will see the screen with the temperature of Latitude 6.927079 and Longitude 79.861244 City Name: Colombo Western province.

In main screen it shows the Selected city current temperature, what is the current situation and also it predicts the next 18hrs of weather forecast and also in addition with this it shows the future days weather prediction with maximum and minimum weather in *c. And then next screen shows all cities in the list. Users can add more cities in this list or remove those existing cities from the list.

When users choose one city to read more details, they will see all the weather information about the city. Users also can see the other information's like

Colors

All the colors used in this mobile app is chosen from the Ui gradients Color official website.

<https://uigradients.com/>

Icons and Pictures

I will set a function that allow users to see weather icons along with the change of the weather, and try to get those icons from an icon website.

<https://www.freepik.com/free-photos-vectors/weather>

There are no more other pictures an icon will be used in this mobile app.

INSTALLATION STEPS

Starting application with these following commands below,

```
#Npm install
```

```
#Npm Start
```

```
#React-native run-android
```

```
D:\React Native\react-native-weather (master -> origin)
λ npm start

> Weather@0.0.1 start D:\React Native\react-native-weather
> node node_modules/react-native/local-cli/cli.js start

Scanning 570 folders for symlinks in D:\React Native\react-native-weather\node_modules (21ms)

Running packager on port 8081.

Keep this packager running while developing on any JS projects. Feel
free to close this tab and run your own packager instance if you
prefer.

https://github.com/facebook/react-native

Looking for JS files in
D:\React Native\react-native-weather

Loading dependency graph...
React packager ready.

Loading dependency graph, done.
Bundling `index.android.js` 100.0% (593/593), done.

BUILD SUCCESSFUL

Total time: 13.026 secs
Running C:\Users\Mathangan\AppData\Local\Android\Sdk/platform-tools/adb -s emulator-5554 reverse tcp:8081 tcp:8081
Starting the app on emulator-5554 (C:\Users\Mathangan\AppData\Local\Android\Sdk/platform-tools/adb -s emulator-5554
Starting: Intent { cmp=com.weather/.MainActivity }

D:\React Native\react-native-weather (master -> origin)
```

GitHub Repository Link

<https://github.com/mathan1995/React-Native-Weather-App>