**Project Legacy**

Current Status:

In this project, we propose an integrated system, developed for use by the common people, adapted to Smartphone's, tablets and handheld devices. The proposed system which is based on android platform facilitates the involved personnel's throughout with the facility, regardless of the existence of network connection in the area using a typical smart phone. The proposed application and its backend system maintain an access to user’s location depending upon the city id entered by the user, routes then fetch the weather data for the corresponding location from the openweathermap.org server. Additional features include displaying the user’s location by navigating Sunshine to an Map’s application. Also we integrate the feature of modifying the temperatures units according to the will of the user ,for users of the application using a smart phone or a tablet be used.

The proposed system has various modules integrated that will be easy to use and will contribute as a useful tool for the user . Also the user can share the weather details on any social networking application, concerning about the user’s precious time we integrated the feature of showing notifications which displays the compact weather information on the top of the smartphone’s screen from where the user will be directly navigated to the Sunshine’s main screen. We aim at facilitating the users with an up to date weather information for a particular location along with certain weather parameters, regardless of the existence of network connection in the area, using a typical Smartphone.

Remaining Areas of Concern:

* City\_ID issue: One major challenge we had to deal with was that it is not easy for the users to remember the city id’s , instead it is easy for them to remember the names of the city . Most users expect a weather application to auto pick the user’s location by simply turning on the user’s device’s location and relatively high resolution. Our API has neither of these. Additionally, the captured image may need to be filtered to have the correct color, brightness, or quality. Any misalignment, skew, or distortion could cause the barcode to be unreadable. In practice, however, there are still some usability issues since the image must be very clear and large. This results in the barcode photo working roughly fifty percent of the time in the worst condition. This could be considered unacceptable depending on our requirements.
* Networking Issues: The network connection can be considered the major bottleneck since it may produce uncontrollable results. Entire process runs predictably within reasonable time constraints, Weather data projection within a mobile device is definitely possible with the correct implementation. Yet in practice, results are dependent on the quality of the API key as well as the speed of the network connection.

Future areas of concern:

* There is a lot of future work that can be done with this project. The user experience could be improved upon. It would greatly increase our success rate if the user were given visual or auditory clues on how to display the weather data by simply adding the city names or by simply turning on the mobile device’s location. We would like to add better functionalities like collecting and storing the weather data for a particular time period like a month and give a detailed analysis of the weather report using graphs and pie charts and provide a more accurate and detailed weather information of different locations concurrently.
* We can integrate the facility of collecting and analyzing the weather data and make the people aware of if there will be any possibilities of any thunderstorm , heavy rainfall , heavy snowfall any inform people about it in time.