CPS630 LAB 2

Due: Feb 12th @ 23:00hr.

Create a **beautiful, fully functional responsive Weather app** using AJAX with JSON OR XML and current data from the **openweathermap.org** server. Students need to apply for a free unique key to access information from: http://openweathermap.org/api

Criteria: implementation must be pure/vanilla css & JavaScript else Zero.

1. Esthetic and Design: Student are encouraged to be creative but weather information concisely present using **graphic and text**. Application must be responsive to various computers and mobiles. Create your own custom interface that satisfies all criterions.

These links provide good layout and interface for weather app:

- http://www.hongkiat.com/blog/weather-widgets-for-android-home-screens/
- http://www.imore.com/best-weather-apps-iphone
- http://android.appstorm.net/roundups/lifestyle-roundups/10-beautiful-weather-apps/
- 2. User interaction: User selects Fahrenheit or Celsius temperature. User must be able to search for city around the world.
- 3. Weather Information:
 - -Current temp, and weather conditions (cloudy, snow, rain.. etc.), wind and humidity.
 - -Forecast of minimum 5days
 - -hourly(per 3hr) weather information (freedom implement data display ie: graph or traditional information display.
- 4. Use only JavaScript AJAX (NO external frameworks such as jquery and others) call to server to get and manipulate information. Update information must be done asynchronously: location change or temperature F to C or C to F
 - 4.1 Implement a toggle switch to C/F using pure css.
- 5. 20% of this lab mark is toward esthetic and logical layout.

No External framework for CSS.

Submission is via Brightspace dropbox: zip- a self-contained folder of your weather app.

A good layout example (google weather):



Resources:

Unique app id is free:

http://openweathermap.org/price

http://openweathermap.org/appid

Search for **Free weather icons or weather font**:

Or use from the following

http://naldzgraphics.net/freebies/free-weather-icons/

https://erikflowers.github.io/weather-icons/