

Project Features list

- Calculate Weather Data for Boulder, CO(functional)
 - Gather data from numerous sites
 - Populate data onto our website
 - Populate a continuous list of previous weather data
 - Provide High/low, Precipitation chance, Wind speed
- Provide Data-Based Facts(Functional)
 - Using data gathered from sites, provide user with organized weather data catered to their needs
 - Massive storms in history
 - Facts about natural disasters
 - Information detailing cloud formations/locations
- Inspirational Quote
 - Random quote pulled from separate data on site
 - Displayed at Top of homepage
- Provide Weather Prediction
 - Using data from previous days, calculate a prediction for the next day
 - Will provide statistics to how accurate our predictions are to the actual data.
- Provide Switch from Celsius/Fahrenheit/kelvin(functional)
 - User controlled switch provided on site
 - Changes all C values to F, vice versa
- Translate between multiple languages
 - User controlled feature on site
 - Possibly using 3rd party widget implemented on site

Documenting features:

1. Populating weather data(front page)
 - a. (FR1)Pull a fresh set of data on today's weather
 - b. (NFR1) Populate a table containing today's weather
2. Weather predictions (different link)
 - a. (FR2) Using past weeks weather take a best guess as to what tomorrow's weather would be.
 - b. (NFR2) Populate our predictions to a secondary webpage(availability)
 - c. (NFR3) provide statistics that show how accurate our predictions are (reliability/Data Integrity)
3. Inspirational Quotes
 - a. (FR) populate a database with inspirational quotes(365 or so)
 - b. (NFR) Randomly select a quote to display
4. Weather Facts
 - a. (FR) populate a database with weather facts (365 or so)
 - b. (NFR) Randomly select a fact to display
5. Temperature Unit Change
 - a. (FR) Change between Celsius, Fahrenheit, Kelvin

- b. (FR) Apply this change to all temperature values on site
 - c. (NFR) Use basic conversion equations on all temperature values
- 6. Translation
 - a. (FR) Translate the languages by user choose
 - b. (NFR) The language basic English