**Expected Score: 72/75**

Comments: All items of the grading rubric we implemented with the exception of the feature to filter by value.

Riley’s Tasks: Implement API’s and plugins (Leaflet, Open AQ, Nominatim, Leaflet.heat), add and average particles for markers on screen, add input boxes (lat, long, zoom, nominatim), add particle filter, add date filter

Brandon’s Tasks: Add color and convert units in the table, add banner when unsafe levels of a particle, add legend, implement fullscreen functionality, duplicate features on both maps

**Grading Rubric (75 pts)**

* Show a 2 independent maps (side-by-side) using the Leaflet API
  + Pan and zoom available with mouse click-and-drag and scroll wheel interaction
  + Have an input box for a user to type a location (lat/long coordinates)
    - Map should update when location is entered
    - Input box text should update with new location (lat/long coordinates) when map is panned
  + Get air quality measurements from the Open AQ Platform for the past 30 days
    - Average measurements of the same particle taken at the same location
    - Only retrieve data from locations shown on the map (account for both center and zoom level)
    - Draw markers on the map for each location their is at least one measurement
* Populate a table for each map with air quality measurements (from the Open AQ Platform API)
  + Table should automatically update data based on location shown in map
  + Table should show all measurements, not just the averages
* "About the Project" page
  + Short bio about each team member (including a photo)
  + Description of the tools (frameworks, APIs, etc.) you used to create the application
  + Video demo of the application (2 - 4 minutes)
  + Six interesting findings that you discovered using your application
* Create UI controls to filter data per map
  + Filter based on particle type
  + Filter based on measurement values for each particle type (e.g. only show co > 1.3, ammonia > 72.9, ...)
  + Allow different historical data to be retrieved (select a date/time range within the last 90 days)
* Use the Nominatim API to search via place name in addition to lat/long coordinates
  + Also update search box location to location name when panning the map
* Style the background color of particle values in the table so they match the Air Quality Index from the EPA
  + If levels of one or more particle are "Unhealthy for Sensitive Groups" (orange) or higher, add a banner with the AQI descriptor (page 2)
  + Also include a legend for the colors
* Add option for showing a heatmap visualization overlay on the map when only one particle type selected
  + Color should represent the measurement value
  + Include an easy-to-read legend
  + Do NOT use a rainbow color scale
* Allow either map (along with the location input box) to go fullscreen