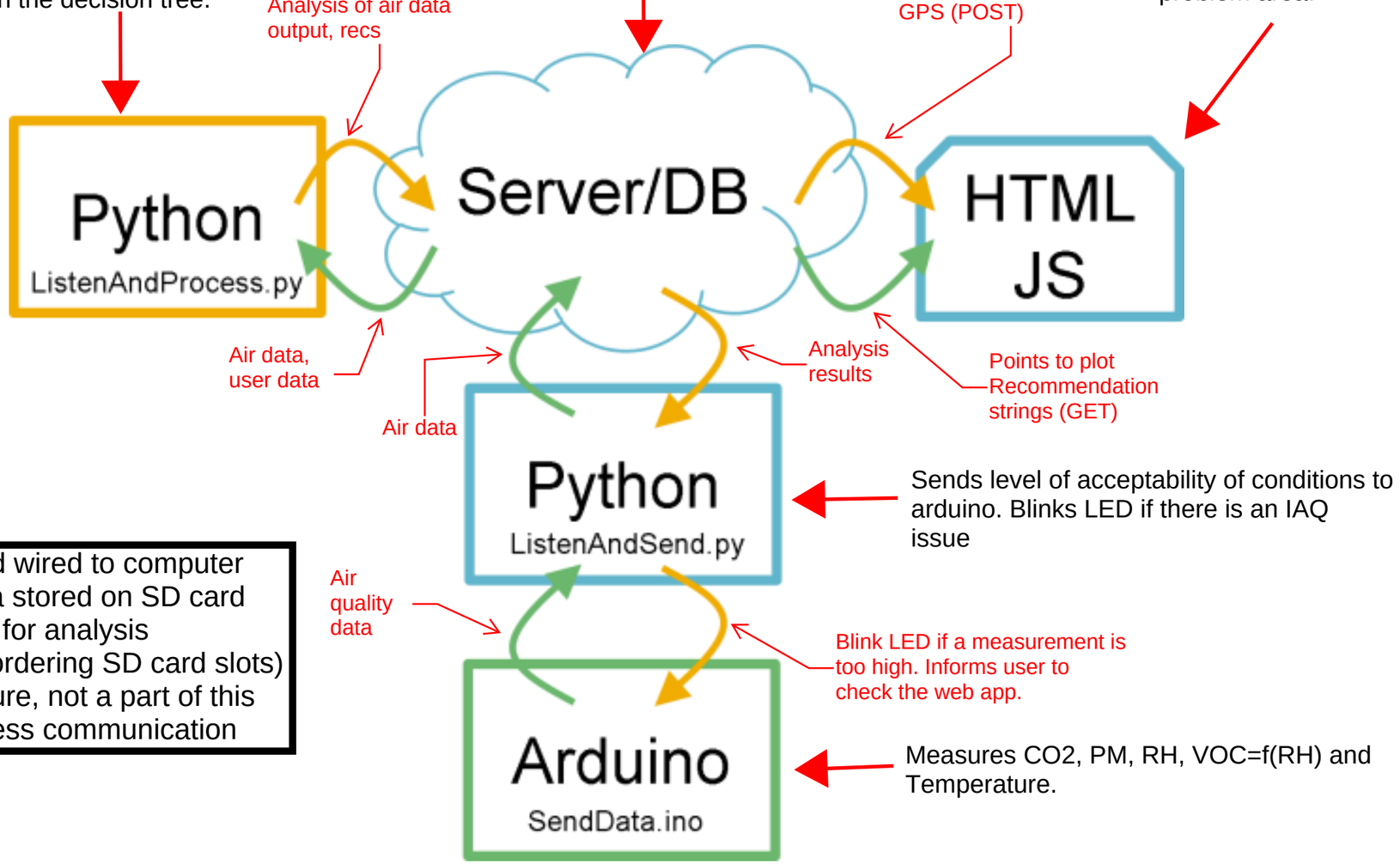
All connectivity with server uses the same framework as Lab 5

Aggregates data and uses a flow chart to come up with recommendations. Calculates total exposure, relative health risk, saves user data over time, and takes user input of what they did to measure and see if it worked. Basically the personal IAQ assistant of the system. User inputs data about the building that either opens up or closes off options in the decision tree.

After collecting a given amount of data from the user, either stores that data or sends to python for a summary statistic for the time period and stores that.

Plots measured IAQ levels on different time scales (minute, 1 hr, 8 hr, 1 day, cumulative exposure). Displays health rating of good, fair, or poor for the space and offers standard (not customized) recommendations for reducing biggest problem area.



Sends level of acceptability of conditions to arduino. Blinks LED if there is an IAQ issue

Measures CO2, PM, RH, VOC=f(RH) and Temperature.

Phase 1: hard wired to computer
Phase 2: data stored on SD card and retrieved for analysis periodically (ordering SD card slots)
Phase 3: (future, not a part of this course) wireless communication