

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light greenish-blue. They are positioned diagonally, with the blue one partially covering the green one.

# Software Engineering Presentation

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# Approach

Meetings & Scope

- Meetings
  - Constraints
  - Gantt Chart
  - Trello Board
  - System Architecture
  - Diagrams
-

# Team Organization

1. We split into two groups. One group to focus on the code and another group to focus on the diagrams
2. First Team Plotted out diagrams and established priorities
3. Allowed development team to have clear goals and list of what was needed vs what was desired
4. Met up twice a week to keep both groups updated
5. Split of work allowed for each team to stay focused but also not overwhelmed



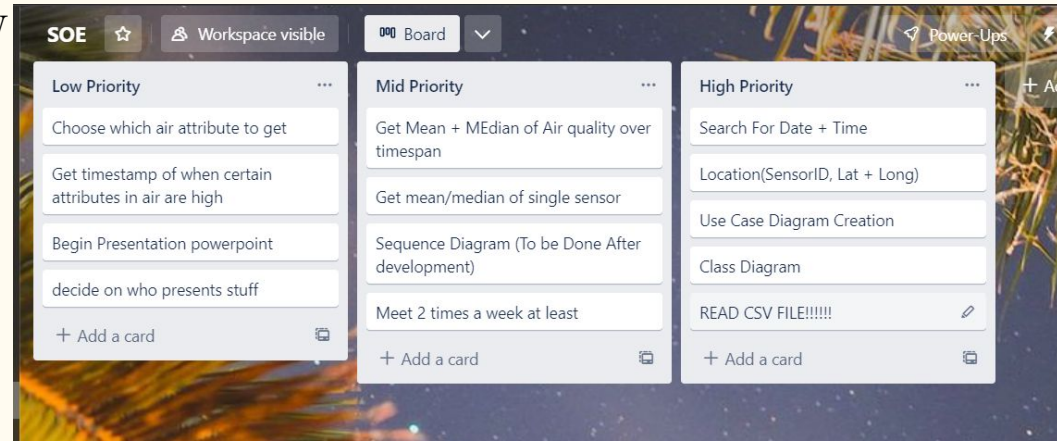
# Scope Constraints

- We wanted to make sure the scope of our software was agreed on by both parties to avoid scope creep. We did by
  - Communicating Frequently via different working environments (in person, virtual etc)
  - Prioritising Tasks to optimise development
  - Robust documentation showcasing how we were going to approach the development of the software



# Preliminary Schedule

1. We created a Trello Board. This Trello Board helped to clearly identify different stages of our project and to track progress
2. We organised events by priority with three different headings
3. Open - Tasks are still open to be started, In Progress - Tasks are in Progress, Done - Tasks are complete

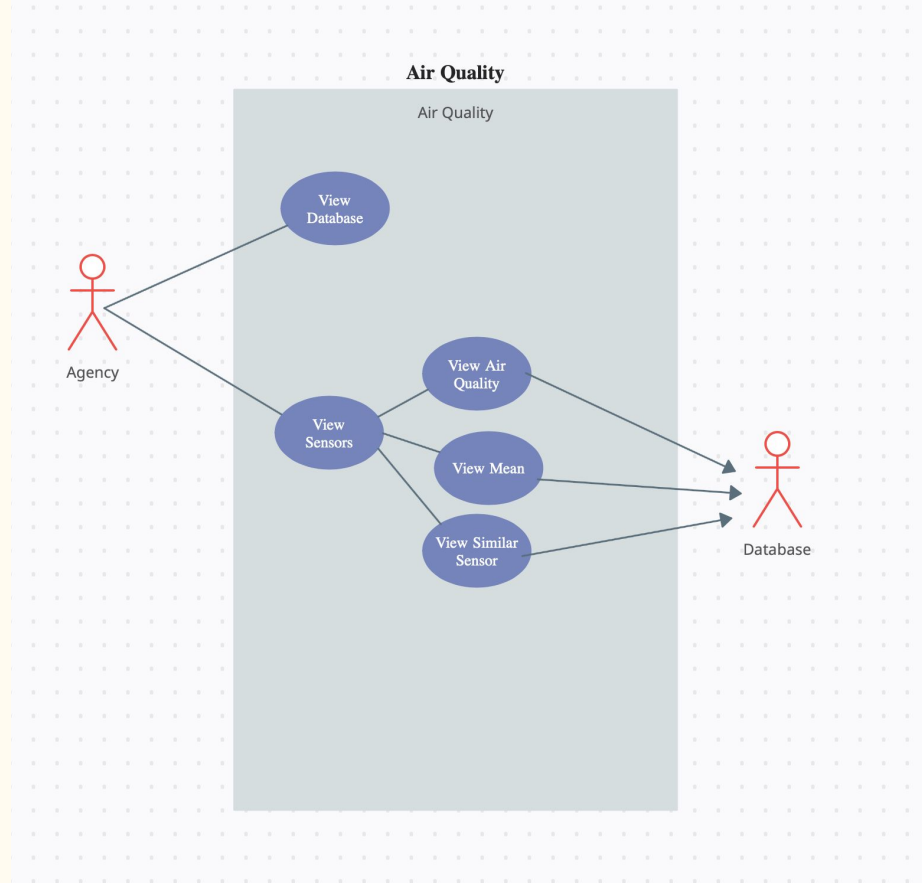


# Goals

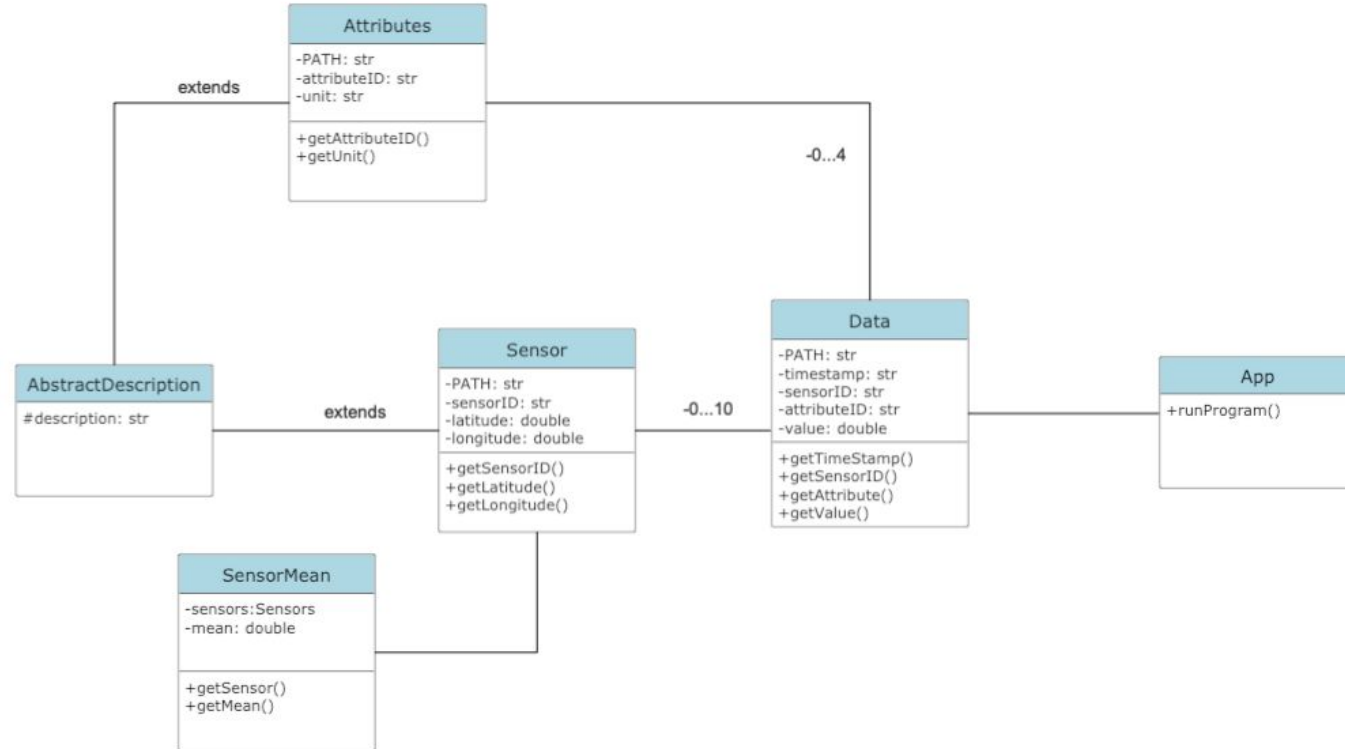
- A program that can average and summarize data
- Categorize sensors by date and
- Capable of summarizing what the software does
- Make model depicting functions of program
- Make model depicting timeline of functions
- Create a fully functional program



# Use Cases Diagram

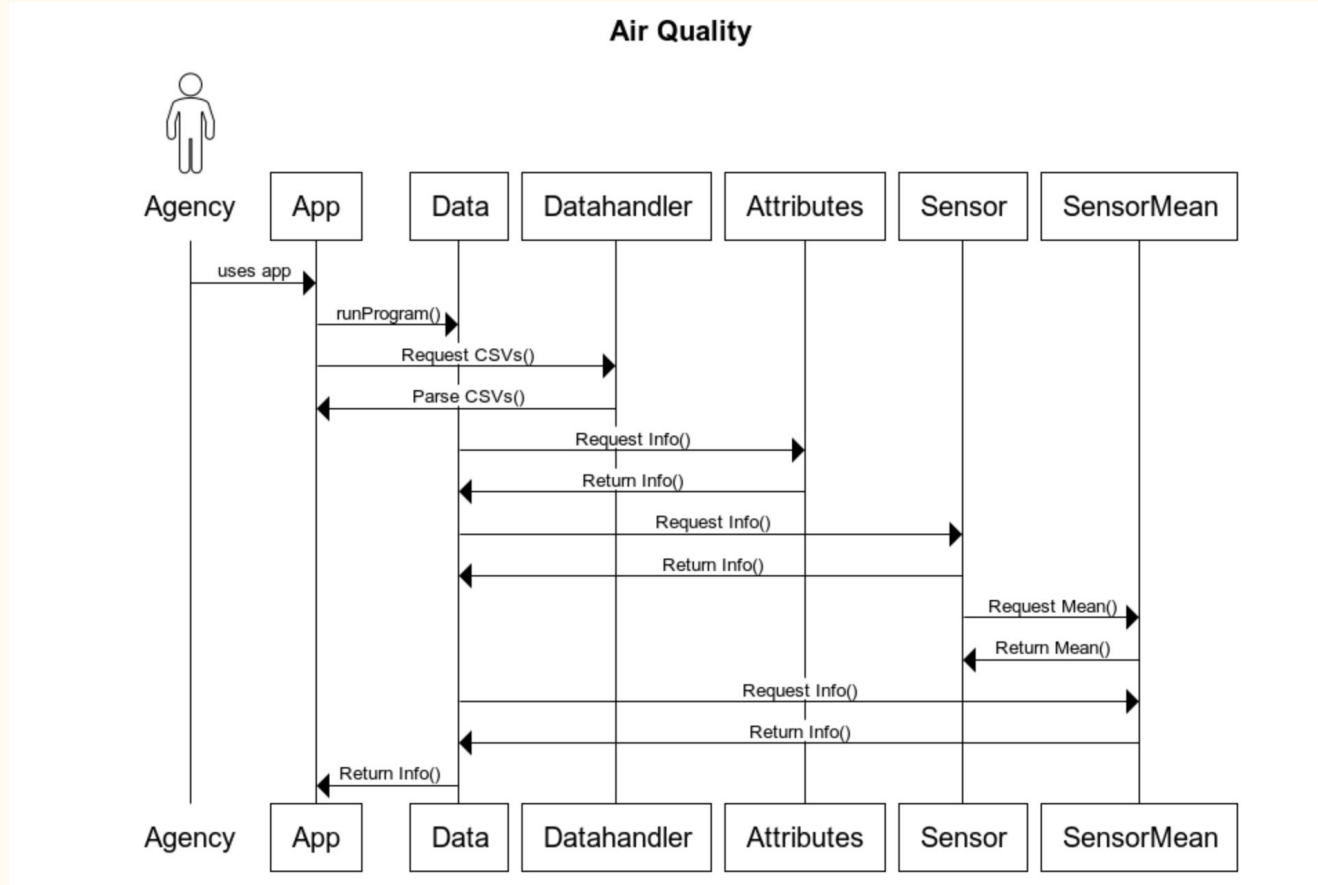


# Class Diagram





# Sequence Diagram



# Realities

- Goals were too ambitious for time frame
- Beyond the scope of possible and reasonable development
- Team split led to some communication and timing problems
- Priorities were not stern enough
- Diagrams required some progress in the code, and code required some diagrams

