Plan for server version 2:

I want to create a new server that uses some different frameworks to achieve its new roles. The second version will:

* Have automated testing (unittesting whitebox and blackbox)
* Use flask\_sqlalchemy to allow for an object oriented programming (OOP) approach to a tabular database
* Use flask\_marshmallow to allow easy serialisation of objects into json

Graphical user interface

Description automatically generated with medium confidence

**What inputs / endpoints whould there be:**

* Pi data http POSTrequest to send data new weather data to db (includes secret key and json data)
* Website assets in dtatic folder: handled by flask
* Website data http GET request to get weather data (may include timestamp as url argument)
* CSV raw data

**Examples and Sources of help:**

* <https://www.youtube.com/watch?v=y_Wc2qwVKbg>
* <https://flask-marshmallow.readthedocs.io/en/latest/>

I now need to plan how to manipulate the data in the database in order to do live calabration:

* I must first think about what the format of data is on entering the database and leaving it
  + The input is one set of readings which will contain a value for each of the weather attributes measured (e.g. preassure) but this will be uncalibrated
  + The output is an array of weather data records/objects that include all the weather data values and a timestamp( + primary key) with calibration
* I will aim to store the uncalibrated data in a table in some form aswell as storing the necessary calibrations in another table
* I will use a view to calibrate the data