Since we were low on time this is the solution we demoed

RPi sensor

RPi sensor

RPi sensor
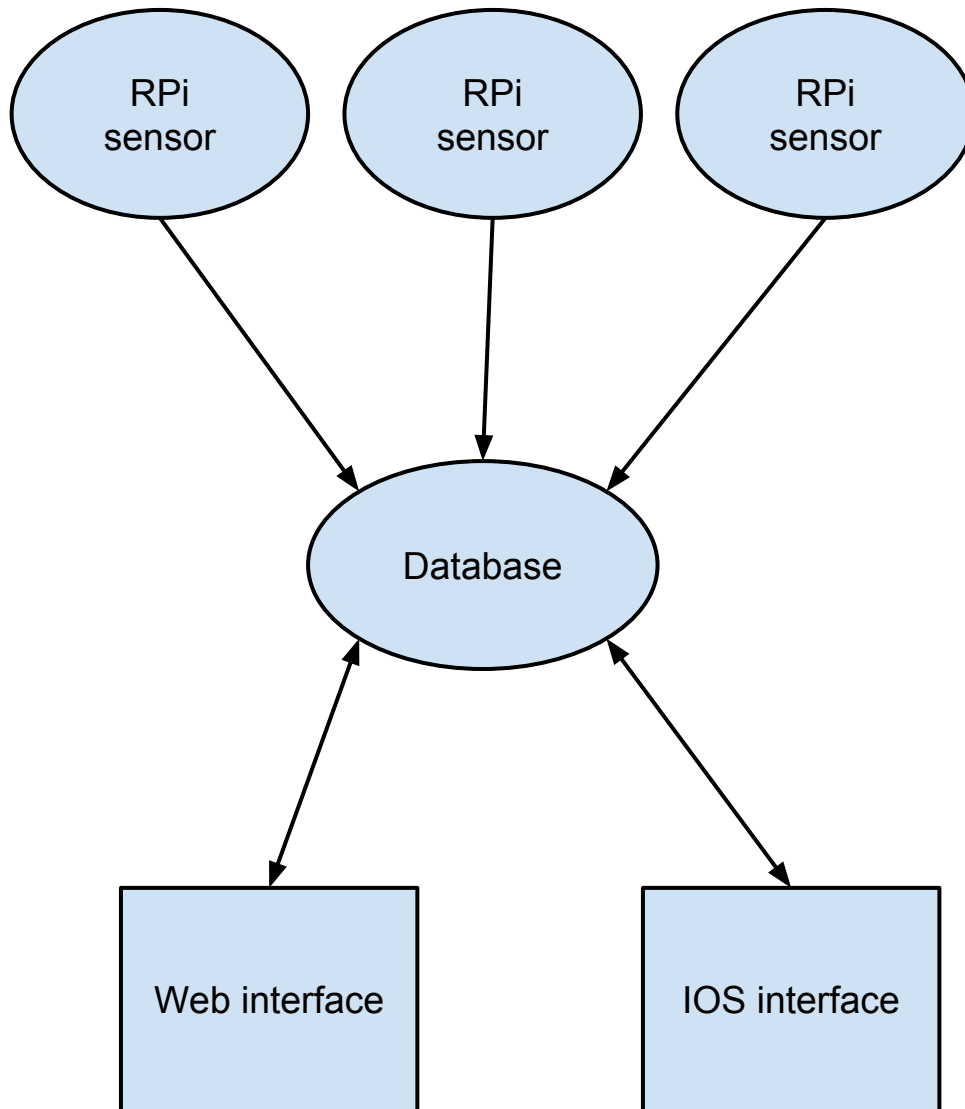
Sensors send data directly to db. This has the advantage that new sensors can be added without any config outside the sensor.

Database

Clients poll the database requesting data to show the user.

Web interface

IOS interface