**Sensors Data API**

1. **Flow of the application:**

Diagram

Description automatically generated

1. **Location details of the components:**

* Application code path (on webserver - webserver@128.192.158.63) path: **/var/www/aspendb/probesearch/SensorsData**
* Centralized Local database (on webserver - webserver@128.192.158.63) path: **/var/www/aspendb/probesearch/SensorsData**

1. **Technical details:**
   * The application is built using Python.
   * The application runs on port 8071
   * To check status or start or stop or restart the service of the application use below command on the webserver:
     + sudo systemctl status SensorsData
     + sudo systemctl start SensorsData
     + sudo systemctl stop SensorsData
     + sudo systemctl restart SensorsData
   * The above service file can be found at:
     + sudo nano /lib/systemd/system/ SensorsData.service
2. **Application Summary:**
   * This application is an API which gets data in the form of JSON from all the RPIs and it stores this data in the respective table in Data-Store.db which is the centralized local database used in the application – Sensor Report.
3. **[GitHub link](https://github.com/sakshi-seth-17/SensorsData.git)**
4. **Follow below steps to setup this application:**
   * Download code from GitHub.
   * Create virtual environment – python3 -m venv venv
   * Next, source venv/bin/activate
   * Next, pip3 install -r requirement.txt
   * To check if application is working fine run – python3 app.py
   * To access the API from outside the server, the API needs to be listed on the server. Steps to register the API on the server with reverse proxy:
     + First, allow outgoing port - sudo ufw allow 8071
     + sudo ufw enable
     + sudo ufw status
     + cd /etc/apache2/sites-available
     + sudo nano 000-default.conf
     + Add below lines

#SensorsData

ProxyPass /firebase http://128.192.158.63:8071/firebase

ProxyPassReverse /firebase <http://128.192.158.63:8071/firebase>

* sudo systemctl restart apache2
* sudo systemctl status apache2