**Sensor-Daily-Report**

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](mailto:webserver@128.192.158.63)): **/var/www/aspendb/probesearch/Reporting-Project**
* Active RPI details can be found [here](https://console.firebase.google.com/u/1/project/rpi-dataset/firestore/data/~2FRPI-details~2Fblackbox)
* 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’s Streamlit package.
   * The application can be accessed using link - <http://128.192.158.63:8501/>
   * It runs on port – 8501.
   * To check status or start or stop or restart the service of the application use below command on the webserver:
     + sudo systemctl status dailyreport
     + sudo systemctl start dailyreport
     + sudo systemctl stop dailyreport
     + sudo systemctl restart dailyreport
   * The above service file can be found at:
     + sudo nano /lib/systemd/system/dailyreport.service
2. **How to register a new RPI to this application?**
   * Add the query in the config file by referring to the older query to get data from the database. **Note:** The name of columns should be same as mentioned in the older query.
3. **Application Summary:**
   * This application is built to get daily observations of the sensor data like temperature, humidity, brightness, and images.
4. [**GitHub link**](https://github.com/sakshi-seth-17/Reporting-Project.git)
5. **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 – streamlit run app.py