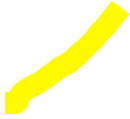
Diagram

Description automatically generated



We are testing communication bridge between GUI and Firebase DB. This is the only way the GUI communicates with the rest of the system.

|  |  |
| --- | --- |
| **Test Case** | **Plan to Verify** |
| Send SenseHat sensor data to Firebase DB using Pi. | Verify through Firebase GUI. |
| Query data from Firebase DB through Front End GUI. | Verify through Python print statements. |
| Change data in the Firebase DB through Front End GUI. | Verify through Firebase GUI. |
| Query Firebase DB for changes (made through Front End GUI) using Pi. | Verify through Python print statements. |
| Send Sound Sensor data to Firebase DB using Pi. | Verify through Firebase GUI. |
| Send recorded audio to Firebase Storage using Pi. | Verify through Firebase Storage GUI. |
| Send recorded video to Firebase Storage using Pi. | Verify through Firebase Storage GUI. |

1. Query data from Firebase DB through Front End GUI

* Navigate to GUI Homepage
* Press "Get Data" button
* Enter Sensor ID
* Check output of flask app to see results

2. Change data in the Firebase

* Navigate to GUI Homepage
* Press “Set Threshold” Button
* Enter minimum and maximum temperature thresholds
* Check Firebase to see if the values were updated