

# Device List

- List of Raspberry Pi devices which have been registered in the application.
- Makes the connection process quicker.
- If a Pi has not been registered yet, we can still use the ‘scan for devices’ button to find it.

## Device List

### Registered Devices:

Below is a list of registered devices. Tap on a device to connect. If connection fails, try the "Scan for Devices" button to ensure the device is advertising.

rpi4-60

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rpi4-30

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rpi4-11

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**Scan for Devices**

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# Password Verification

- So any person who happens to come across this app can't automatically get into the hives and tamper with them.
- A characteristic exists on the Pi with both read and write permissions. We write the user entered password to the Pi where it is checked with the correct password and then a true or false response is returned.

**Password Verification**

Disconnect

**Submit**

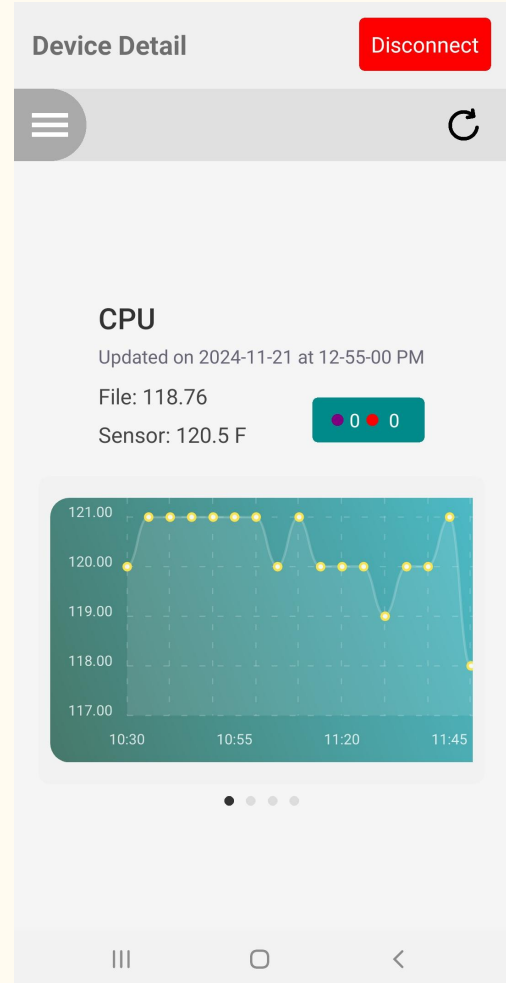
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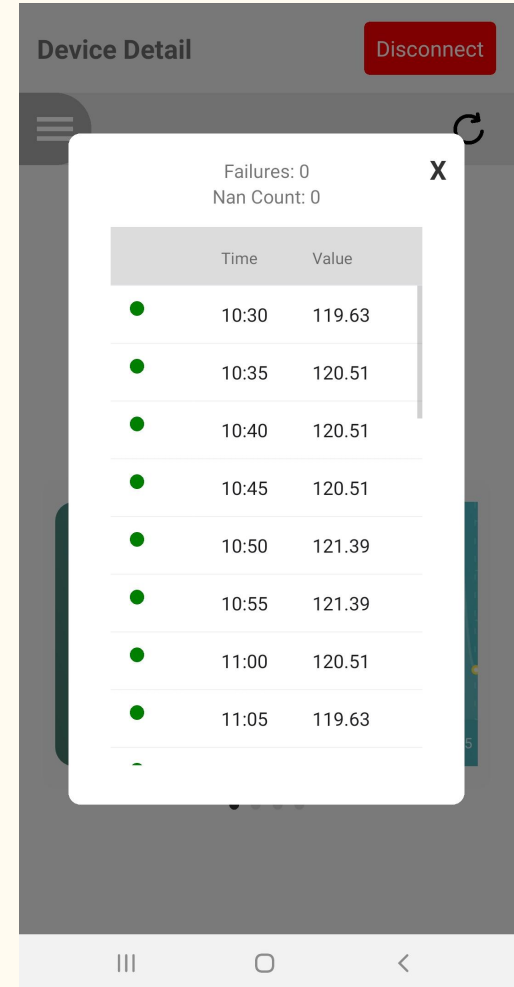
# Device Details

- Home screen of the application.
- Provides information on each of 4 sensors including:
  - Most recent recording from saved AppMAIS file.
  - Line chart showing all recordings from file.
  - Failure and nan value counts
- Click button above chart to open the details modal
- Navigate to other screens by clicking the dark gray button in the top left below 'Device Detail'



# Details Modal

- Gives details on each point in the selected line chart.
- Data includes time of recording and the value recorded.
- Failure count = 3 or more nan recordings in a row.
- Nan Count = Amount of nan recordings.
- Dot color meanings:
  - Green: Non-nan value recording
  - Red: Nan recording
  - Yellow: Interpolated value



# Variables Tab

- Where variables contained in the config file located on the Raspberry Pi can be modified.
- Modifiable variables include:
  - capture\_window\_start\_time
  - capture\_window\_end\_time
  - capture\_duration\_seconds
  - capture\_interval\_seconds

← Modifications

VARIABLESSENSORSCOMMANDS

Basic Data

Device ID: E4:5F:01:5F:AF:73

Device Name: rpi4-60

Below, you can modify the variables in the Pi configuration file to customize their values.

All Other Sensors

capture\_window\_start\_time:0800

capture\_window\_end\_time:2300

capture\_duration\_seconds:60

capture\_interval\_seconds:300

Submit

Refresh

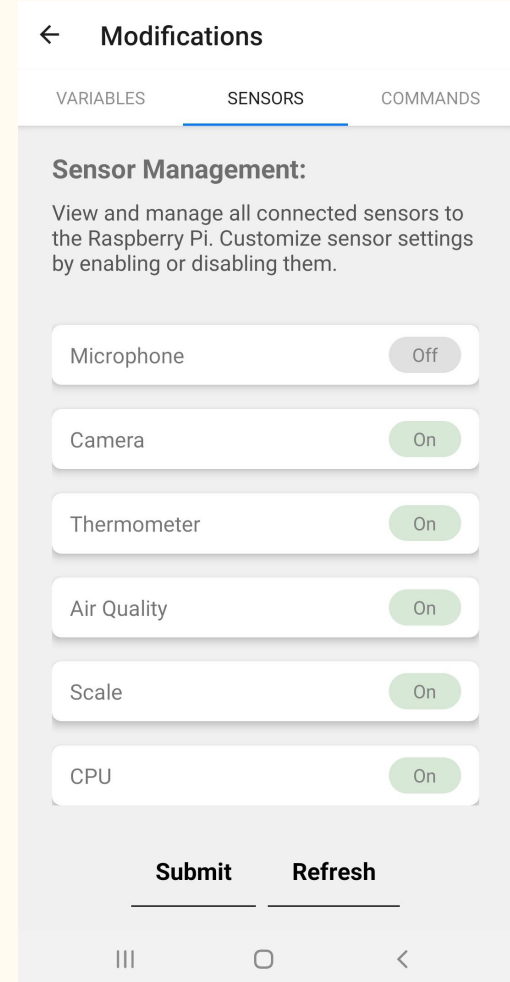
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# Sensor States

- Where the state of sensors can be modified (on/off)



# Commands

- Used to send commands to be run on the Raspberry Pi.
- Contains list of common quick commands.
- Won't allow user to run a command if recording is currently taking place.

← Modifications

VARIABLESSENSORSCOMMANDS

Commands

Device ID: E4:5F:01:5F:AF:73  
Device Name: rpi4-60

Type your command here...

Clear

Quick Commands

sudo systemctl start appmais

sudo systemctl stop appmais

sudo systemctl restart appmais

Send Command

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# Camera

- Contains information on the most recent recording by the Pi including file size and the date of creation.
- Contains line chart showing file sizes of recordings for the day.
- Includes button used to download a frame from the most recent recording.
- Includes button used to take picture using the camera connected to the Pi.

