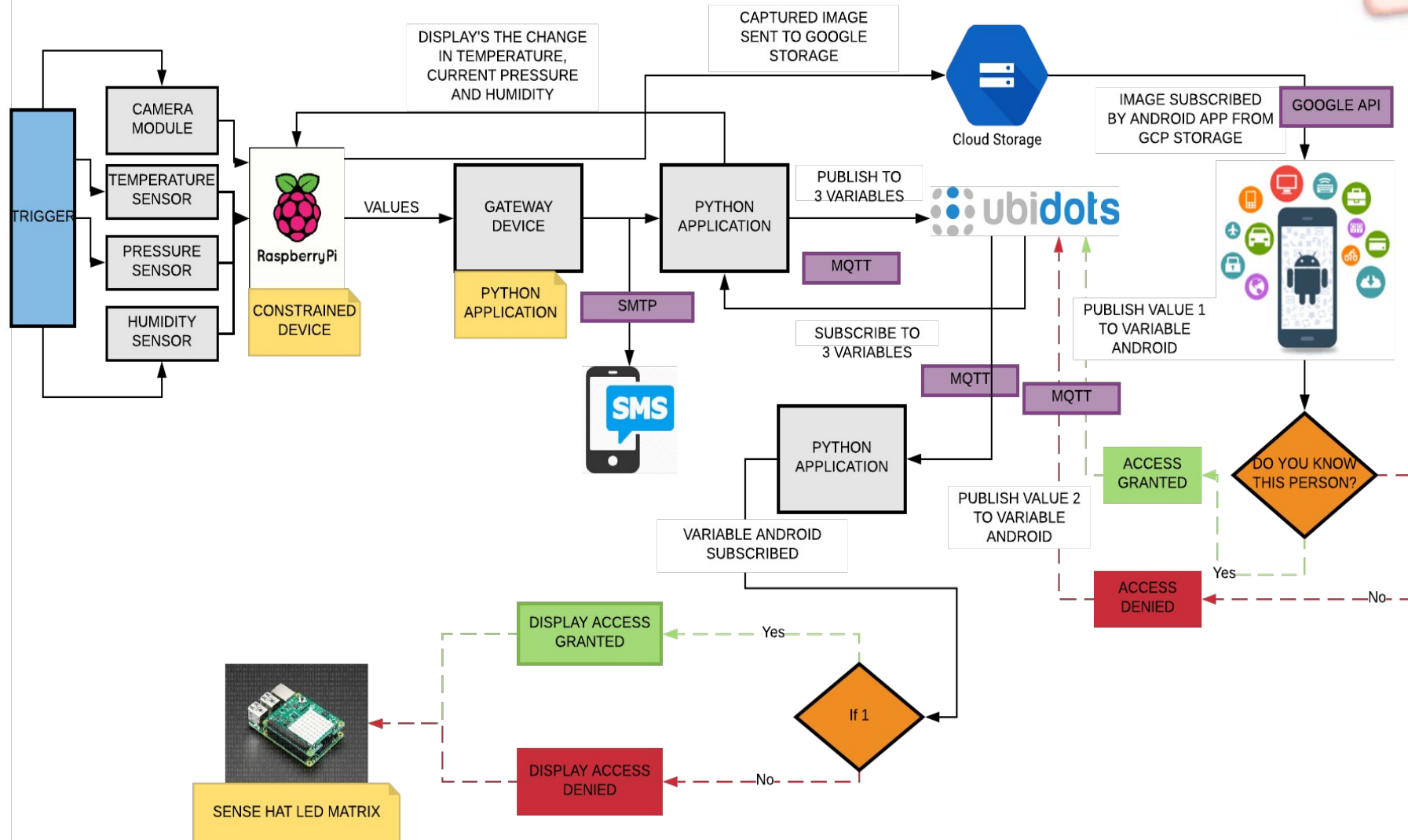




CONNECTED DEVICES

FINAL PROJECT
FACE RECOGNITION BASED SECURITY
SYSTEM

DHARANI.T





Protocols Used :

1. Mqtt
2. SMTP

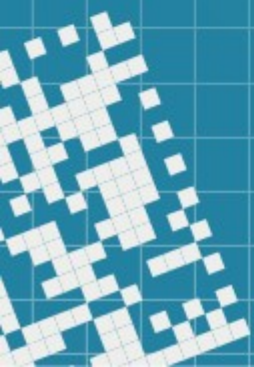
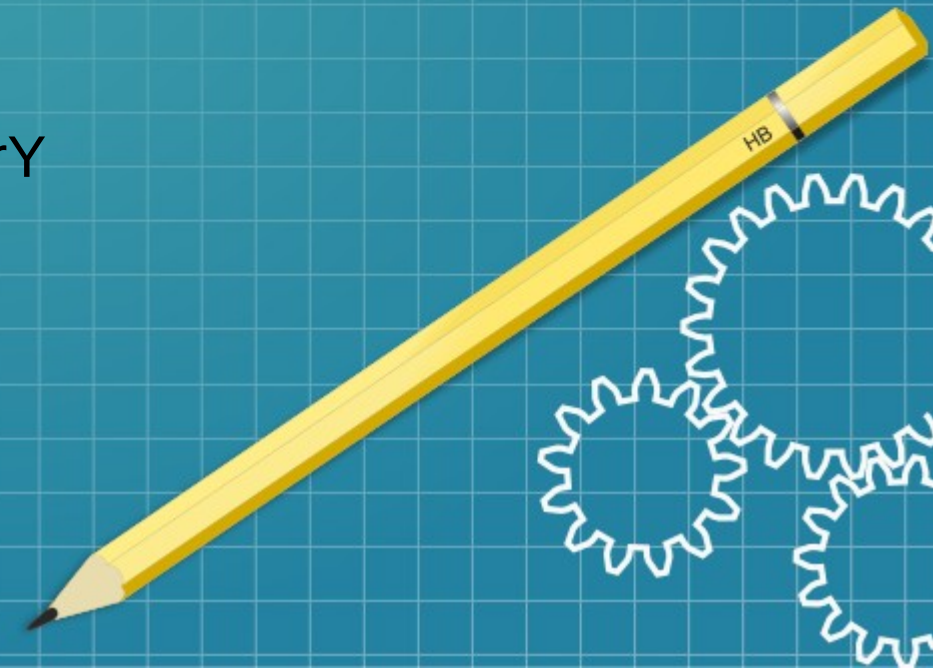
Sensors Used :

1. Raspberry pi camera module/sensor
2. Humidity Sensor
3. Temperature Sensor
4. Presssure Sensor

Cloud Services:

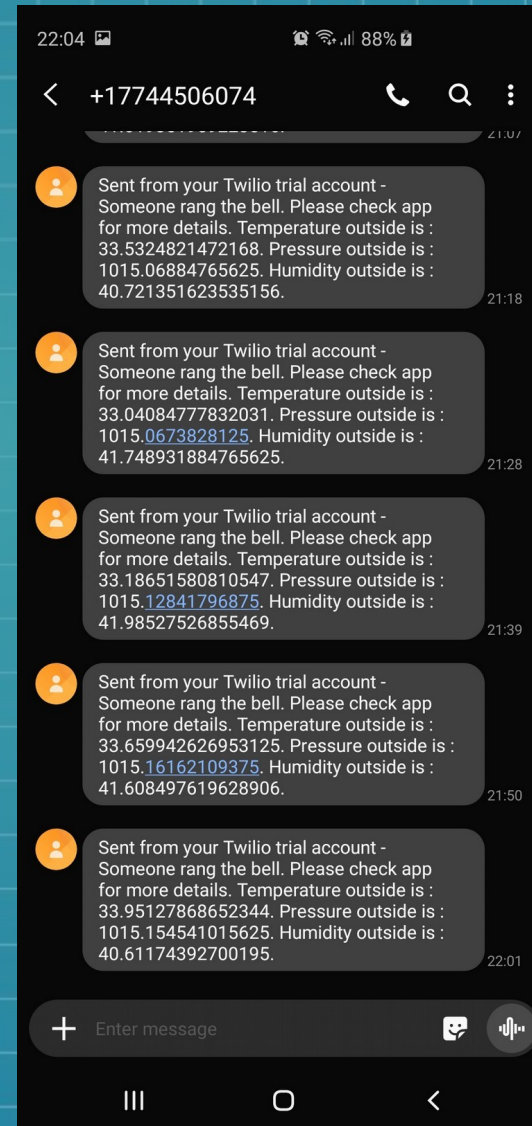
1. Google Cloud Platform
2. UBIDOTS

Url : <https://youtu.be/LZh16xVoErY>

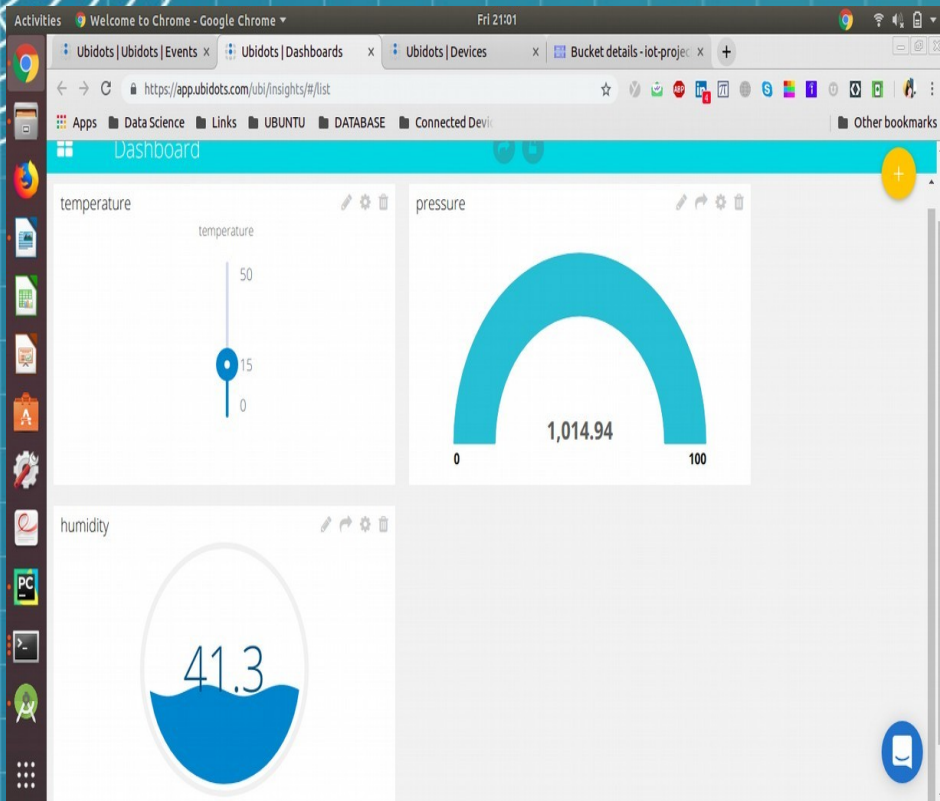


Output

1. Text message



2. Ubidots publish and Subscribe



The screenshot shows a terminal window on a Raspberry Pi. The terminal displays a list of sensor data, including temperature, pressure, and humidity, along with their current and modified values. The data is as follows:

Category	Value
Modified Temperature	15
Original Temperature	15.0
Modified Temperature	15.0
Original Temperature	33.93307113647461
Modified Temperature	15
Original Temperature	15.0
Modified Temperature	15.0
Current Pressure	1015.16162109375
Current Humidity	41.608497619628906
Current Pressure	1015.12841796875
Current Humidity	41.98527526855469
Current Pressure	1015.0673828125
Current Humidity	41.748931884765625
Current Pressure	1015.06884765625
Current Humidity	40.721351623535156
Current Pressure	1014.99853515625
Current Humidity	41.019351959228516
Current Pressure	1014.944580078125
Current Humidity	41.27967071533203

The terminal also shows the command 'Image Uploaded' and a cursor prompt 'I'.

Activities Welcome to Chrome - Google Chrome Sat 09:48

Connected devices - YouTube x Sense Hat Led Matrix - YouTube x Ubidots | Ubidots | Events x

https://app.ubidots.com/ubi/events/#/list

Apps Data Science Links UBUNTU DATABASE Connected Devices Other bookmarks

ubidots FOR EDUCATION Dashboards Devices Events Credits: 5,000 thirumala...

My Events

Variable temperature is greater than ...

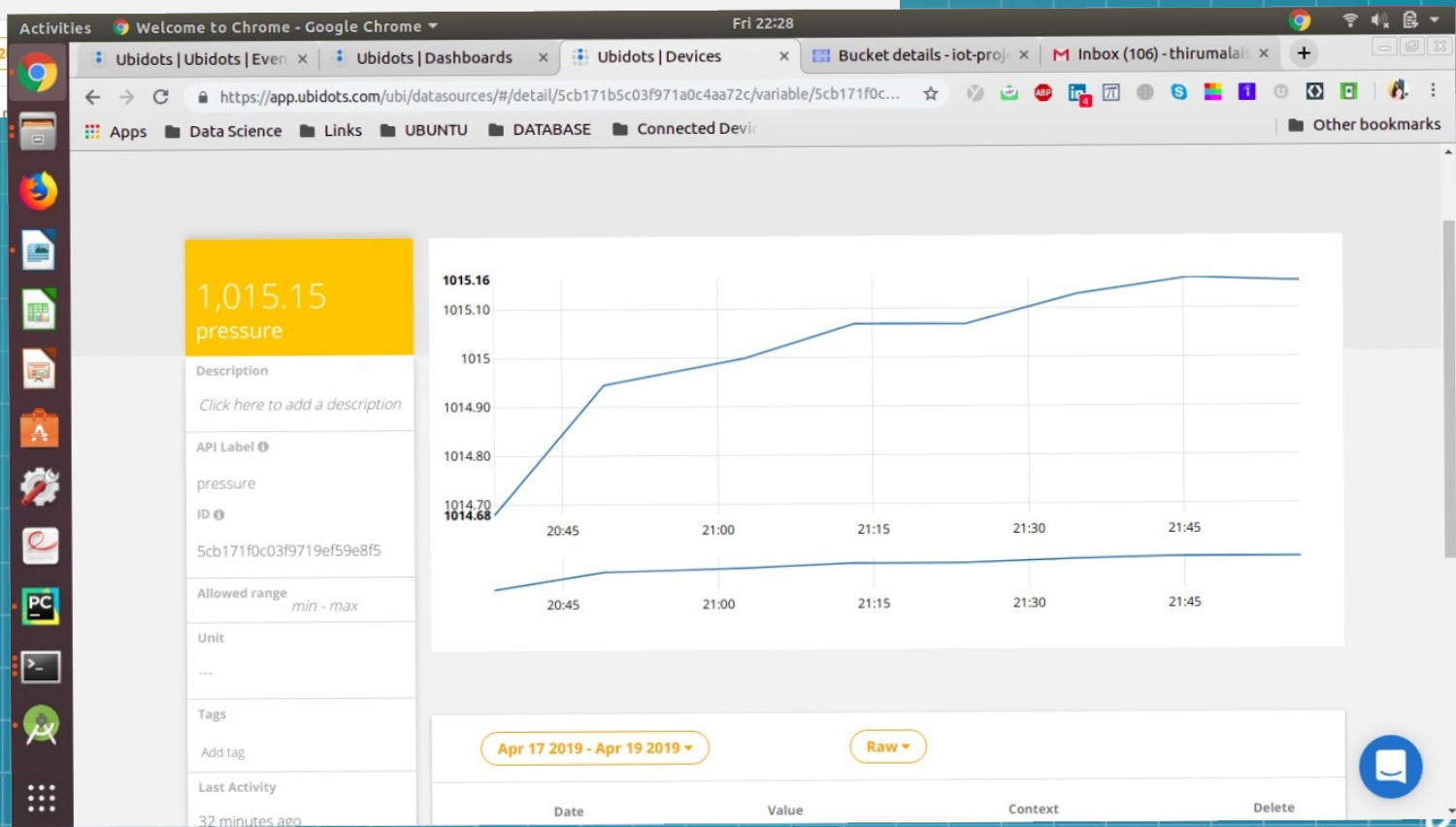
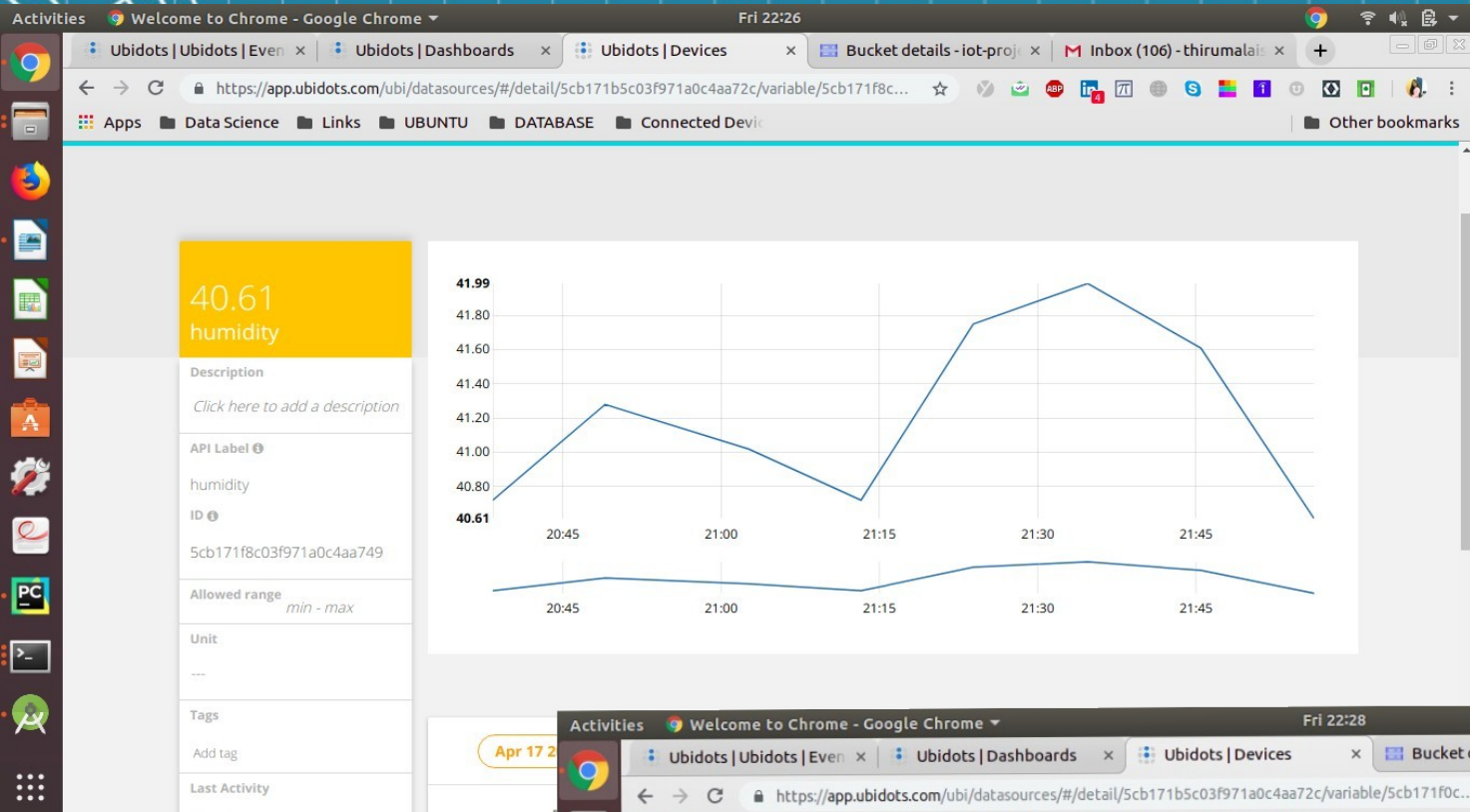
if temperature value is > than 20.0 → Set temperature to 15.0

Variable temperature is less than 15

if temperature value is < than 15.0 → Set temperature to 22.0

+ Add event





Activities Welcome to Chrome - Google Chrome Fri 22:28

Ubidots | Ubidots | Even x Ubidots | Dashboards x Ubidots | Devices x Bucket details - iot-proj x Inbox (106) - thirumalais x

https://app.ubidots.com/ubi/datasources/#/detail/5cb171b5c03f971a0c4aa72c/variable/5cb171eac... ☆

Apps Data Science Links UBUNTU DATABASE Connected Device Other bookmarks

15.00
temperature

Description

[Click here to add a description](#)

API Label ⓘ

temperature

ID ⓘ

5cb171eac03f971a0c4aa748

Allowed range
min - max

Unit

Tags

Add tag

Last Activity

32 minutes ago

Date	Value	Context	Delete
Apr 17 2019	15.00		

Apr 17 2019 - Apr 19 2019 ▾

Raw ▾

Date

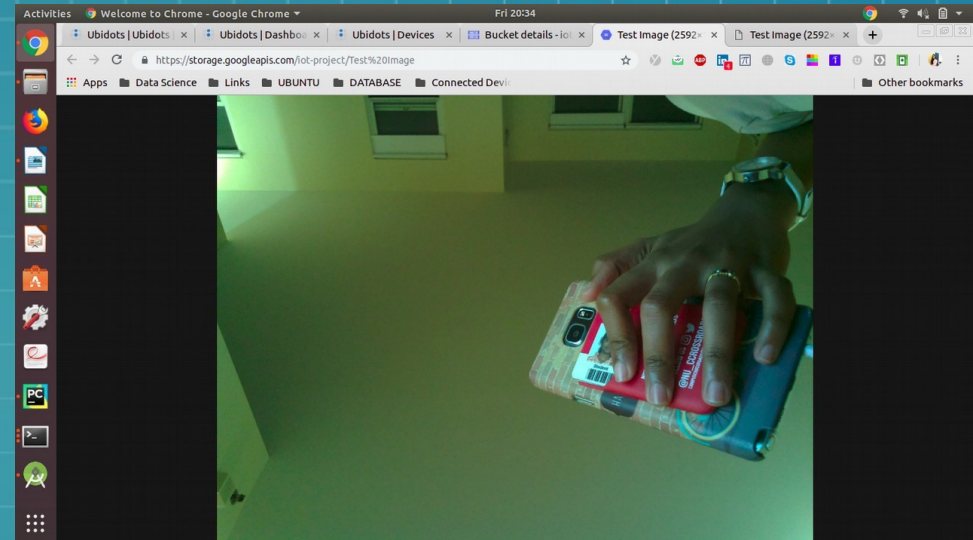
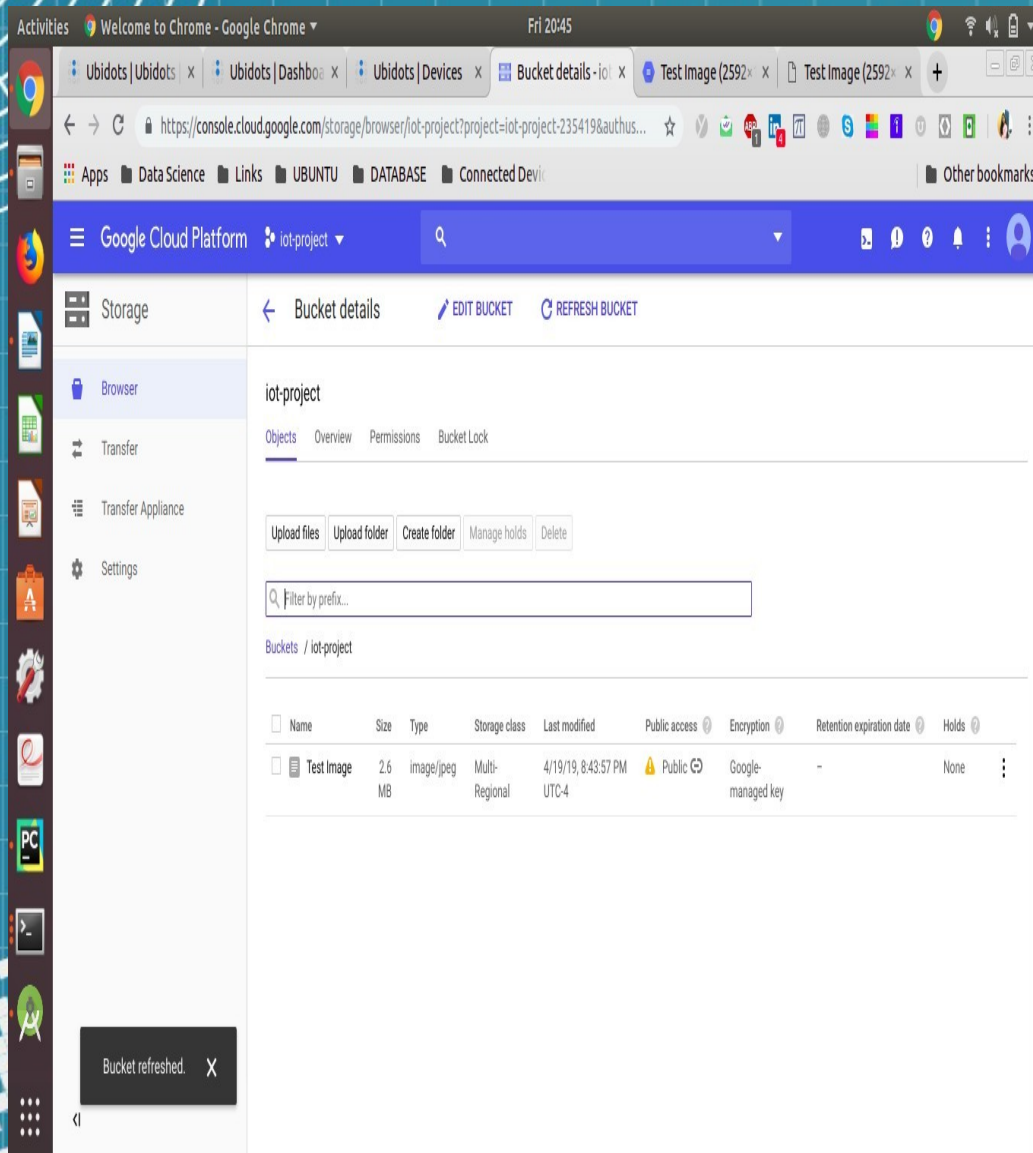
Value

Context

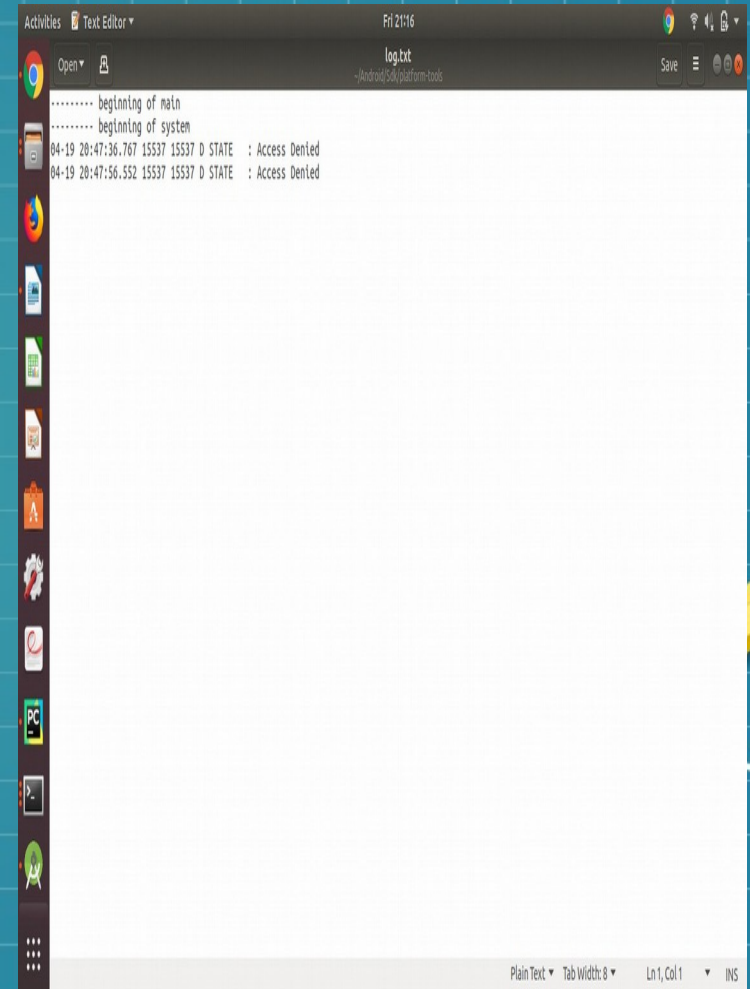
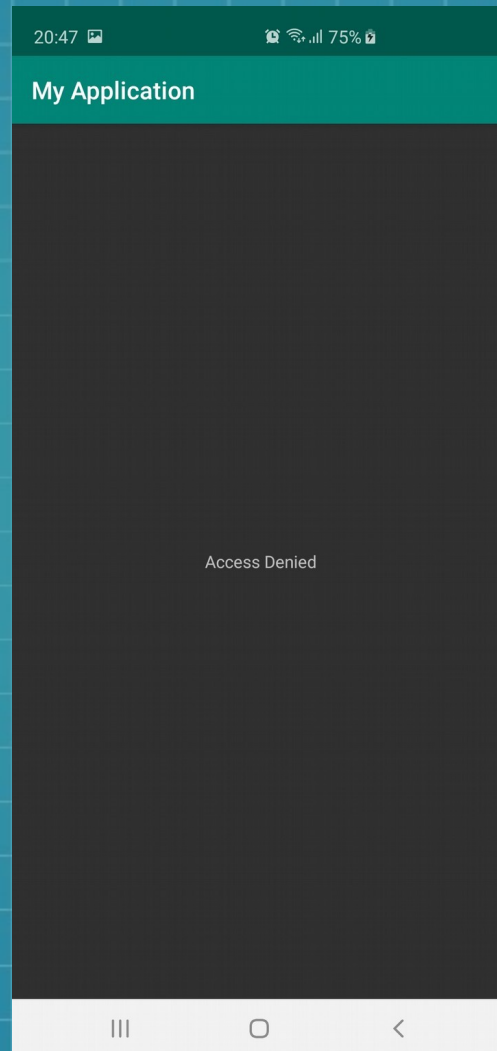
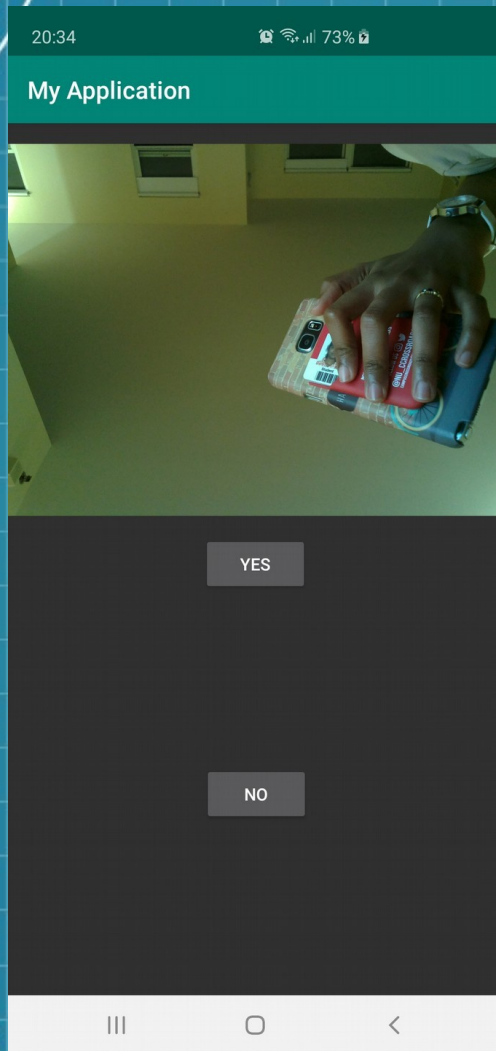
Delete



3. Image to Google Cloud Storage



4. Android App



Activities

Welcome to Chrome - Google Chrome

Fri 22:50

Ubidots | U x

Ubidots | D x

Ubidots | D x

Bucket det x

Inbox (106) x

Documents x

Assignmen x

15349121 x

+

← → ↻

https://app.ubidots.com/ubi/datasources/#/detail/5cb171b5c03f971a0c4aa72c/variable/5cb908dfc...

☆

🔗

📄

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🌐

📺

📶

🔊

🔌

🔍

Apps

Data Science

Links

UBUNTU

DATABASE

Connected Device

Other bookmarks

1.00
android

Description
[Click here to add a description](#)

API Label ⓘ
android

ID ⓘ
5cb908dfc03f9745cb92ca39

Allowed range
min - max

Unit

Tags
[Add tag](#)

Time	Top Series	Bottom Series
21:00	2.0	1.0
21:30	1.0	0.5
22:00	1.0	0.5

Apr 17 2019 - Apr 19 2019

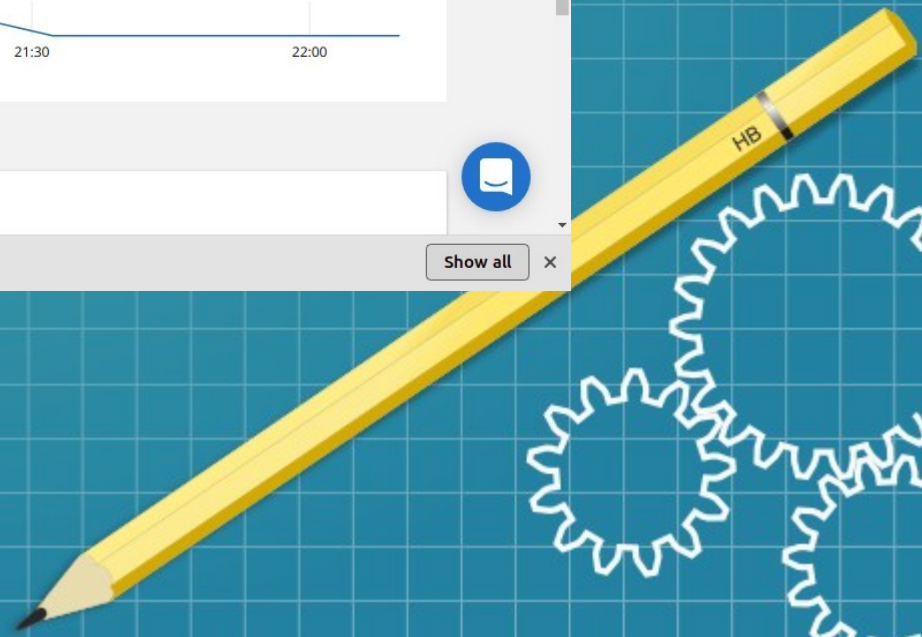
Raw

Show all

x

Blank Diagrama....png

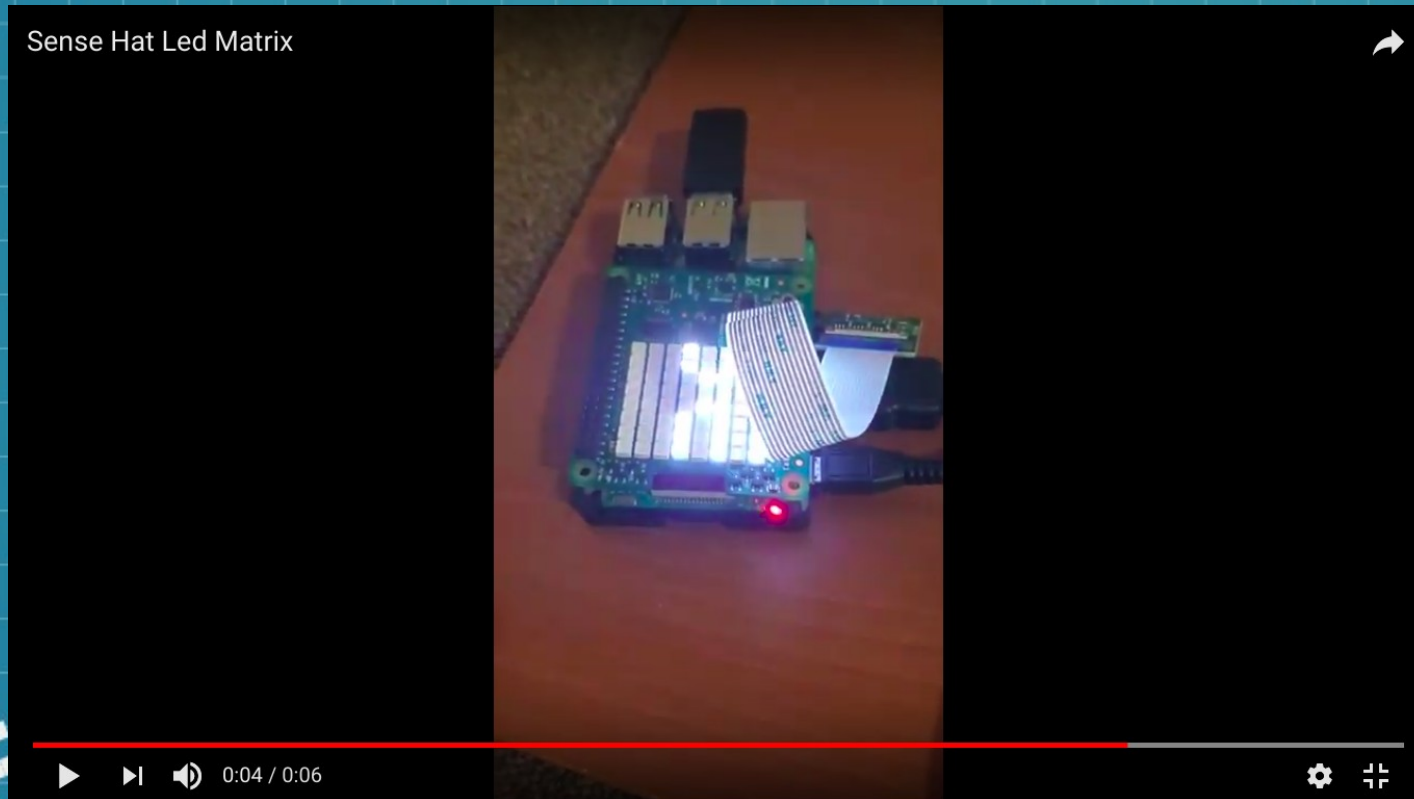
^



5. SENSE HAT LED MATRIX

YouTube Link

https://youtu.be/xa_9HWD0yGU





Future Scope

- 1. Improve algorithm*
- 2. Create database to store data*
- 3. Re-train model*