

Project Development Phase

SPRINT – 4

Date	15 November 2022
Team ID	PNT2022TMID23211
Project Name	IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

Cloud Object Storage:

The screenshot shows the IBM Cloud Object Storage interface. The left sidebar contains navigation options: Cloud Object Storage, Storage instances, Cloud Object Storage-u6, Buckets, Integrations, Endpoints, Usage details, Service credentials, Connections, and Plan. The main area displays the 'cropprotect' bucket. Below the bucket name, there are tabs for 'Objects', 'Configuration', and 'Permissions'. A message states: 'If you're seeing more usage than expected, versions count towards your usage or you may have incomplete uploads. Learn more'. Below this, there is a search bar with the text 'Prefix filter' and an 'Upload' button. A table lists the objects in the bucket:

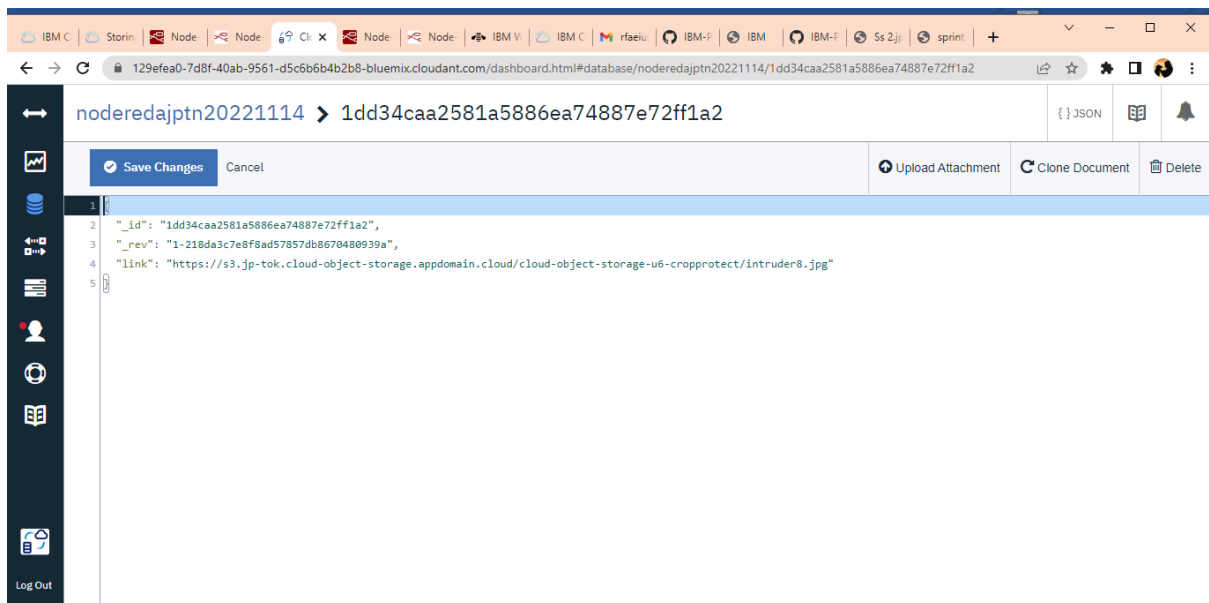
Object name	Archived	Size	Last modified
intruder...		102.7 KB	2022-11-14 2:19 PM
intruder...		68.6 KB	2022-11-14 2:23 PM
intruder...		619.7 KB	2022-11-14 2:20 PM
intruder...		23.6 KB	2022-11-14 2:21 PM
intruder...		476.1 KB	2022-11-14 2:21 PM

Cloudant:

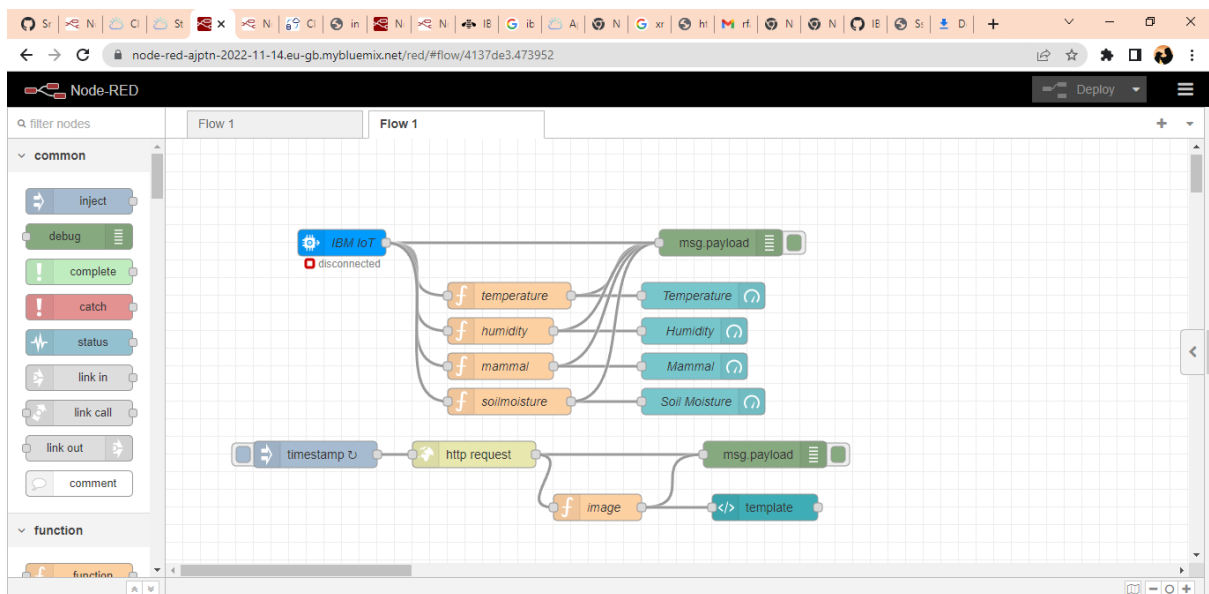
The screenshot shows the Cloudant dashboard. The left sidebar contains navigation options: All Documents, Query, Permissions, Changes, Design Documents, and library. The main area displays the 'noderedajptn2022...' database. Below the database name, there are tabs for 'Table', 'Metadata', and '{ } JSON'. A 'Create Document' button is visible. A table lists the documents in the database:

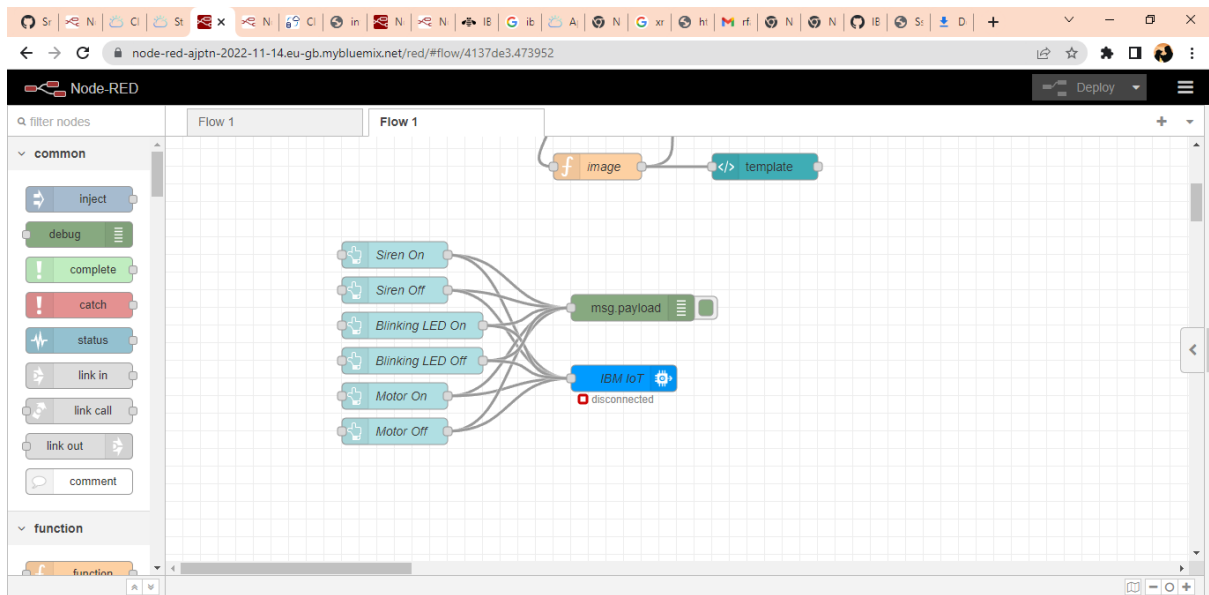
id	key	value
1dd34caa2581a5886ea74887e72ff...	1dd34caa2581a5886ea74887e72ff...	{ "rev": "1-218da3c7e8f8ad57857db...
1dd34caa2581a5886ea74887e7344...	1dd34caa2581a5886ea74887e7344...	{ "rev": "1-4a6b29d18673b825f353...
53148865e9ef279e9bdc440178...	53148865e9ef279e9bdc440178...	{ "rev": "1-a7b25989e66a3f95f937...
8cad23ff4199b3b9001aa3f79d4e22...	8cad23ff4199b3b9001aa3f79d4e22...	{ "rev": "5-3b0938551f3ed6a7227f1...
_design/library	_design/library	{ "rev": "1-c93136490a0976308f8b3...
a18d03c517dcea0418e1798ea4306...	a18d03c517dcea0418e1798ea4306...	{ "rev": "1-5dce8e1c9dfbe02761a6a...
b389af87c96b647b93475fd9960ec...	b389af87c96b647b93475fd9960ec...	{ "rev": "1-fce6893417afb3c5f9216d...
b52400c8b8c77868d01ac0d79d1b5...	b52400c8b8c77868d01ac0d79d1b5...	{ "rev": "1-03881aed59be4df993f40...
b52400c8b8c77868d01ac0d79d24e...	b52400c8b8c77868d01ac0d79d24e...	{ "rev": "1-896d1960c10cf1a8f88b4...
dd4bb07bc64be49062fb4e7092d07...	dd4bb07bc64be49062fb4e7092d07...	{ "rev": "1-54f592e02180047e41ab7...
ea3c73d9ca645d269298fe5b64eb8...	ea3c73d9ca645d269298fe5b64eb8...	{ "rev": "1-5a236957426b03decc14...

Showing document 1 - 14. Documents per page: 20

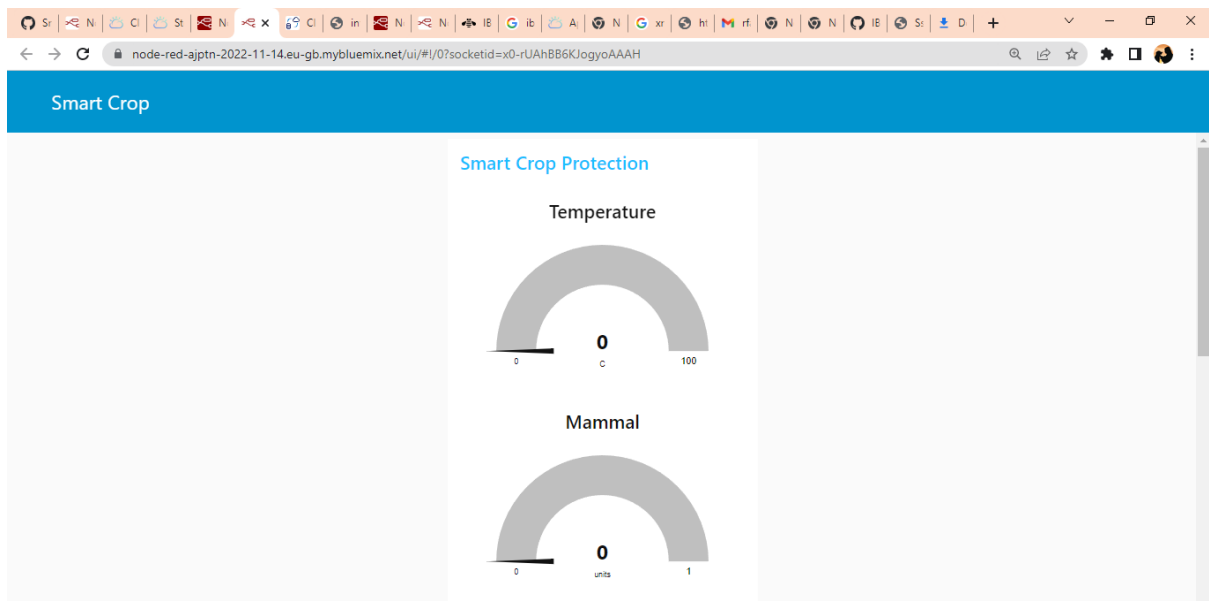


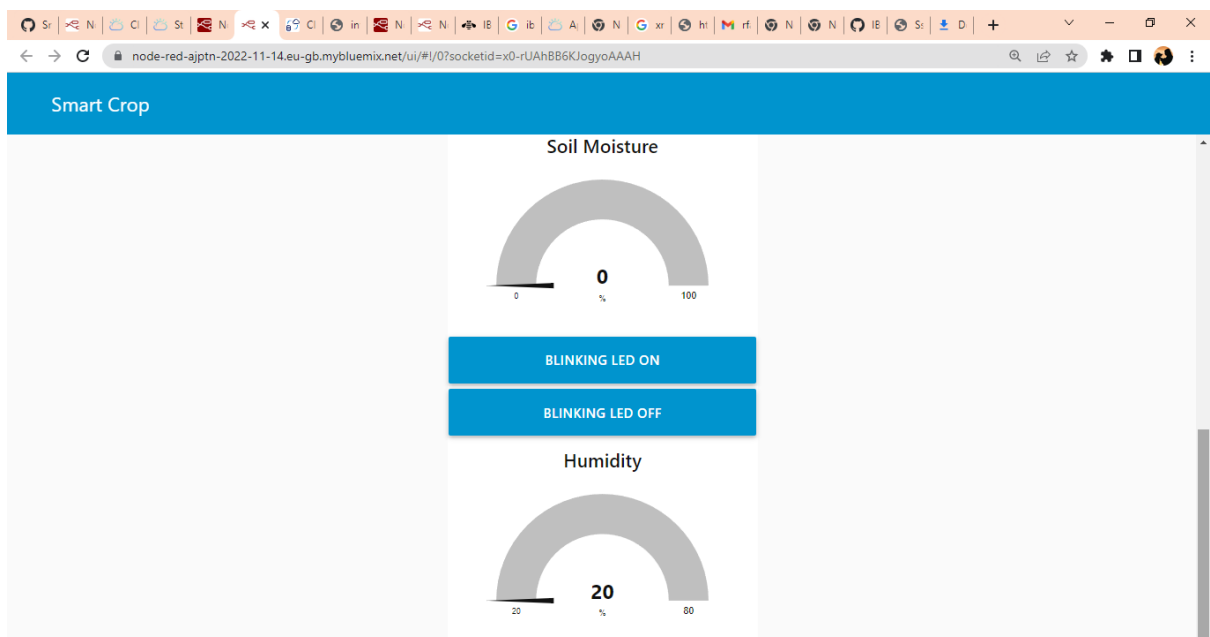
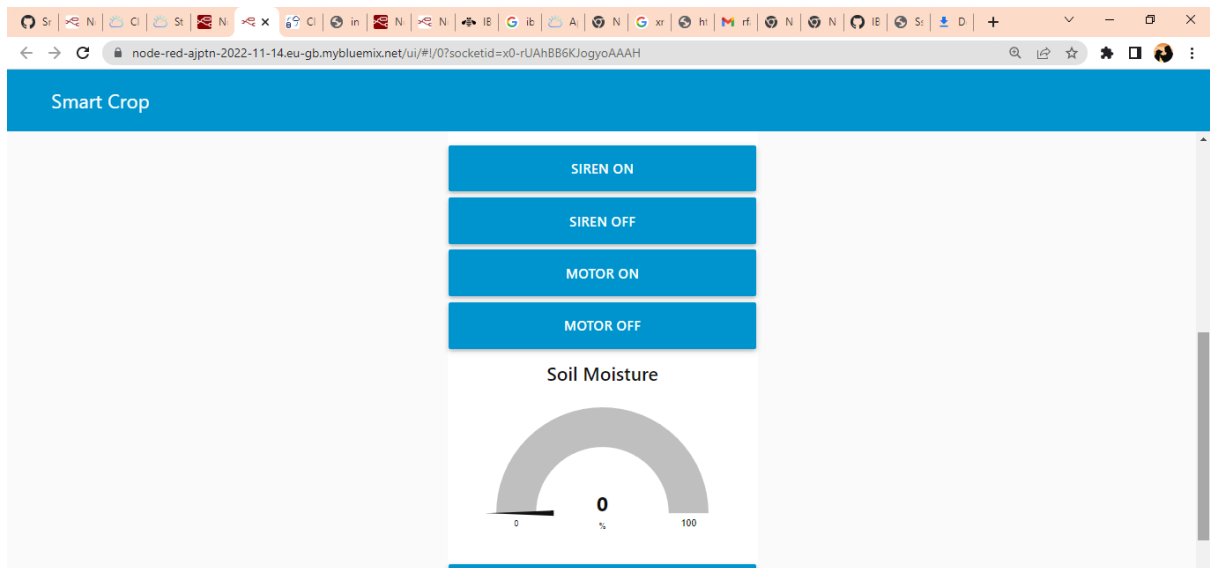
Node-Red Flow:





Web application before Connection:





Connected with IBM Watson IoT

bb2bpw.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Event	Value
event_1	{"humidity":100,"temperature":761,"soilmoistur...
event_1	{"humidity":98,"temperature":5,"soilmoisture":3...
event_1	{"humidity":98,"temperature":434,"soilmoisture...
event_1	{"humidity":3,"temperature":870,"soilmoisture":...
event_1	{"humidity":95,"temperature":488,"soilmoisture...

Items per page 50 | 1-2 of 2 items

Simulations

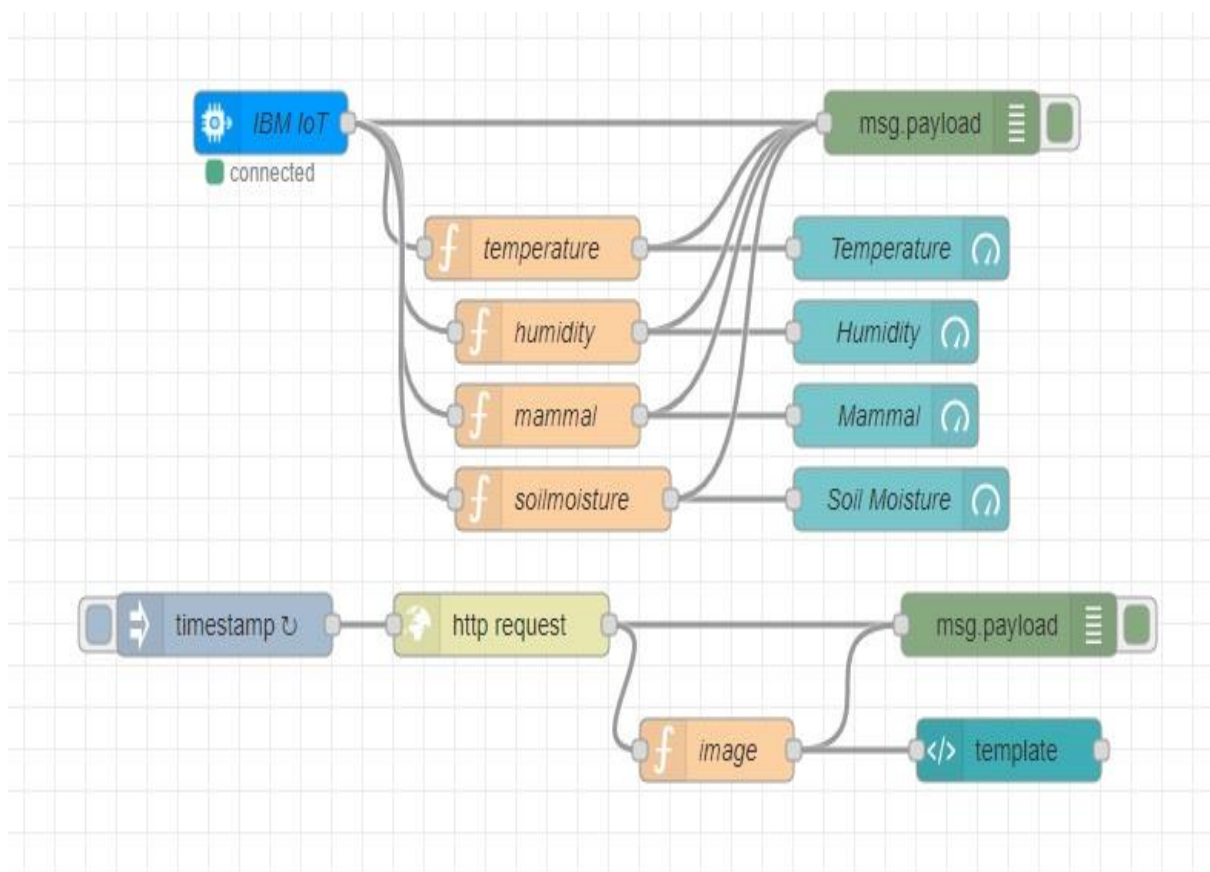
1/50 Simulations Running

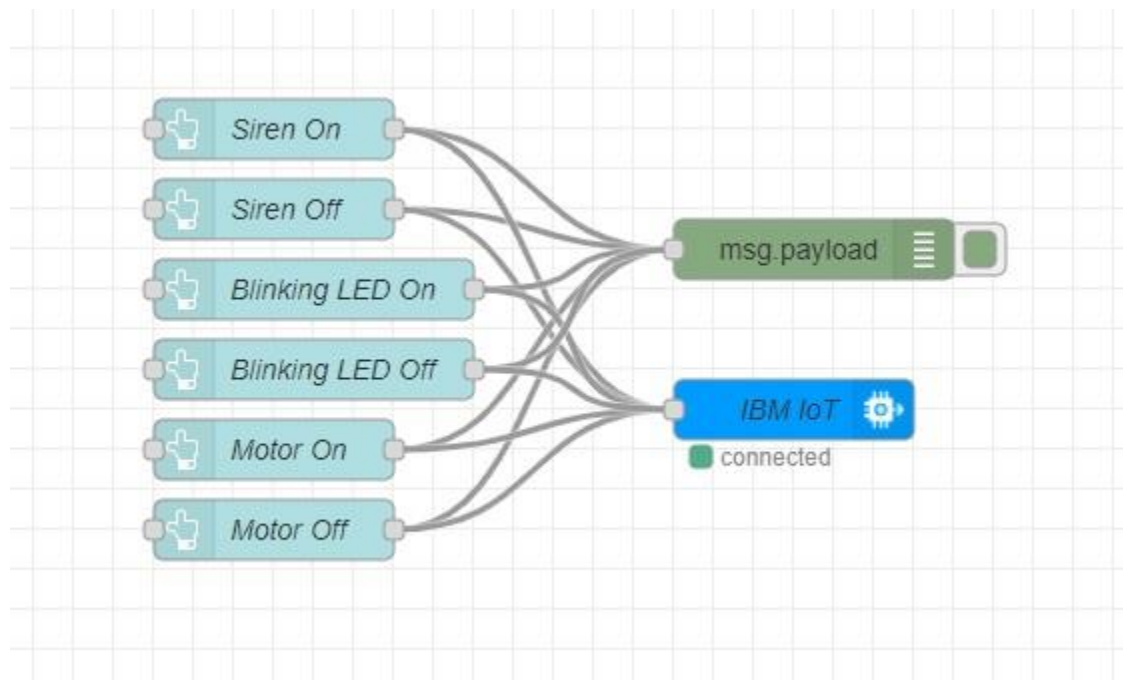
+ New Simulation

Device Type RaspberryPi 1 Event

1 Device 24102001

1 x Create Simulated Device Use Registered Device

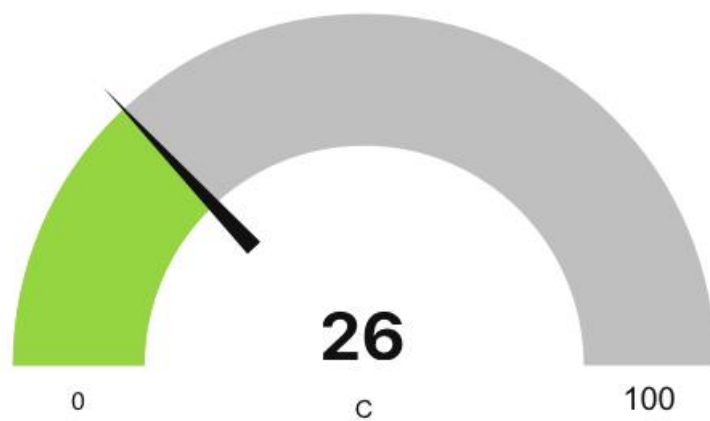




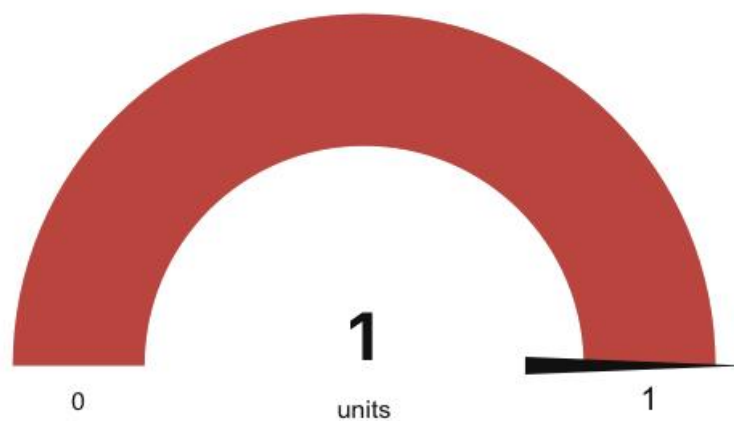
Smart Crop

Smart Crop Protection

Temperature



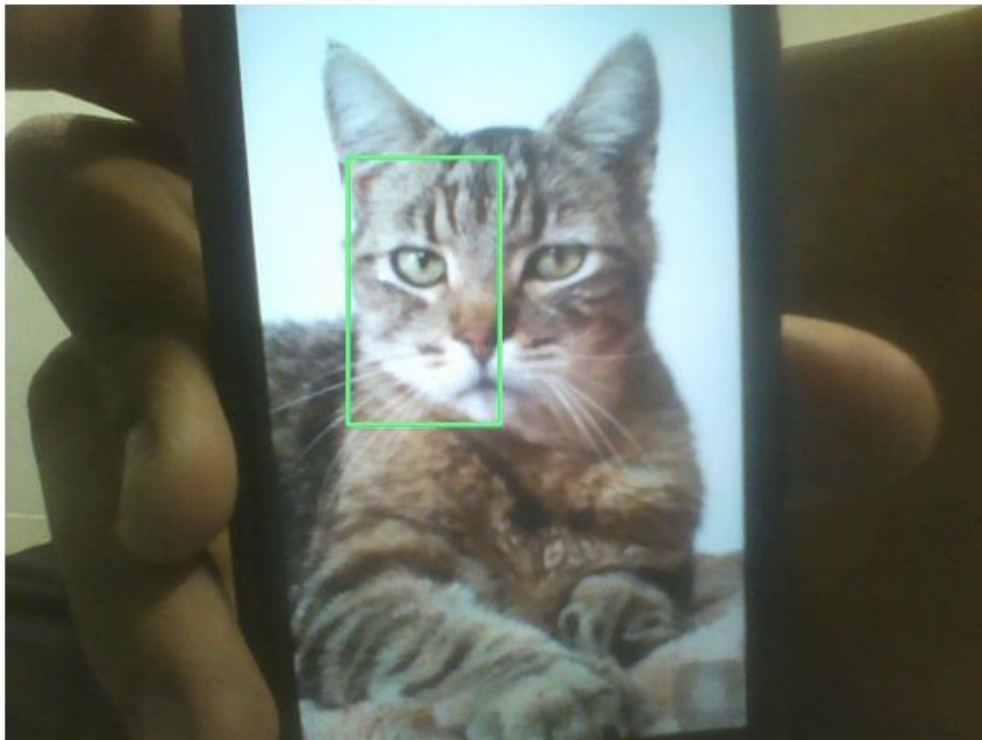
Mammal



Smart Crop

SIREN ON

SIREN OFF

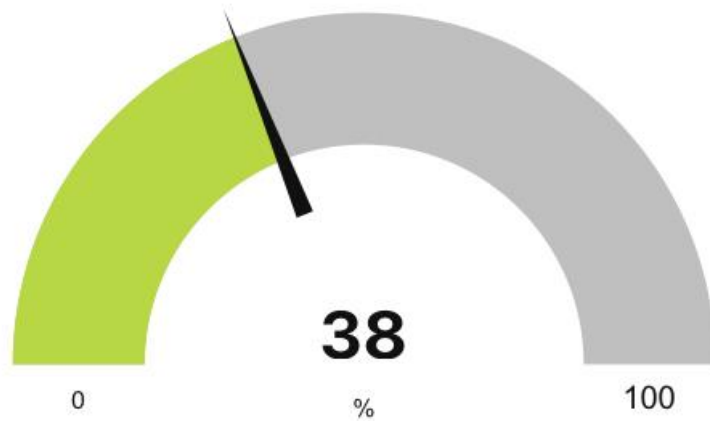


MOTOR ON

MOTOR OFF

Smart Crop

Soil Moisture



BLINKING LED ON

BLINKING LED OFF

Humidity

