

Project Development Phase

SPRINT – 4

Date	17 November 2022
Team ID	PNT2022TMID23211
Project Name	IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

Cloud Object Storage:

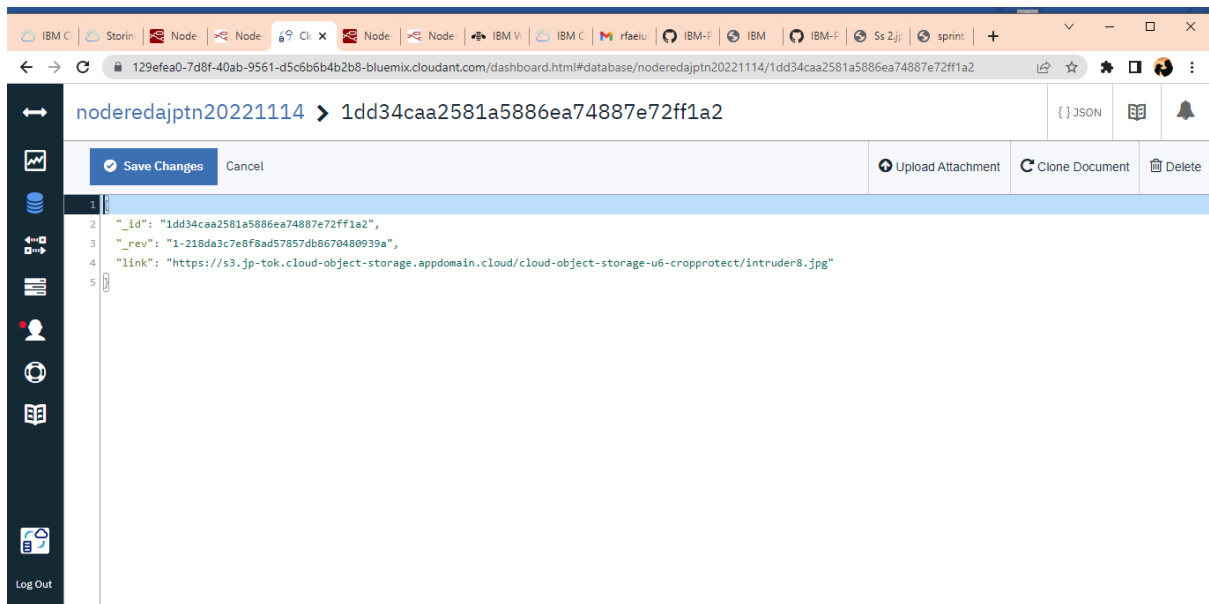
The screenshot shows the IBM Cloud Object Storage interface. The left sidebar contains navigation options: Cloud Object Storage, Storage instances, Cloud Object Storage-u6, Buckets, Integrations, Endpoints, Usage details, Service credentials, Connections, and Plan. The main area displays the 'cropprotect' 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 table of objects with columns: Object name, Archived, Size, and Last modified. The table lists five objects, all named 'intruder...', with sizes ranging from 23.6 KB to 102.7 KB and last modified dates on 2022-11-14.

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

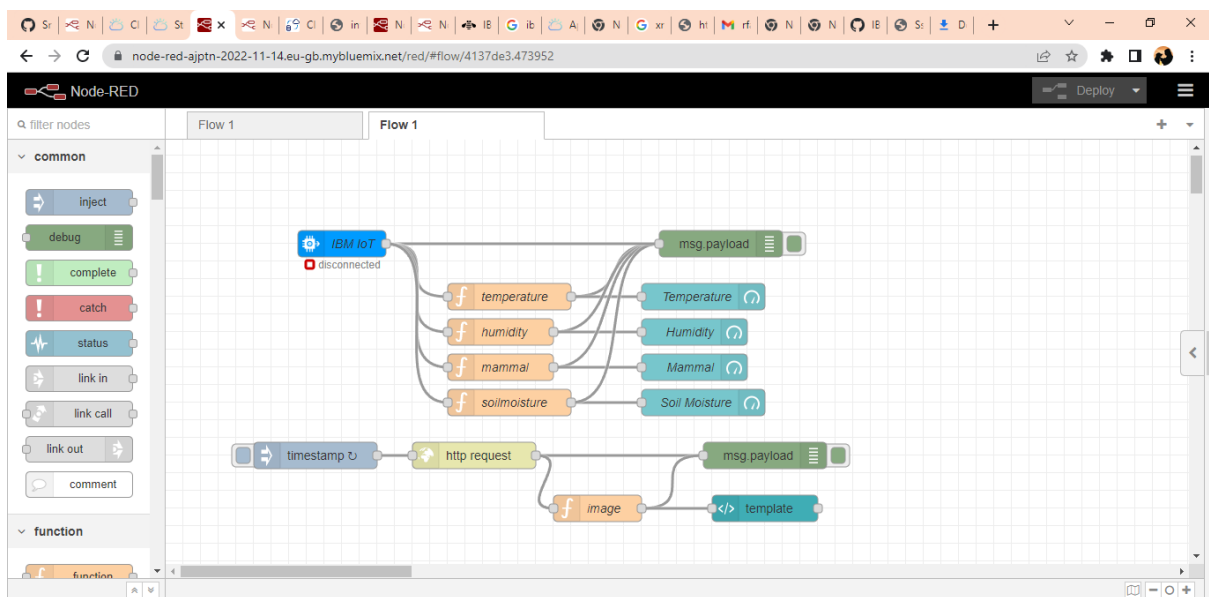
Cloudant:

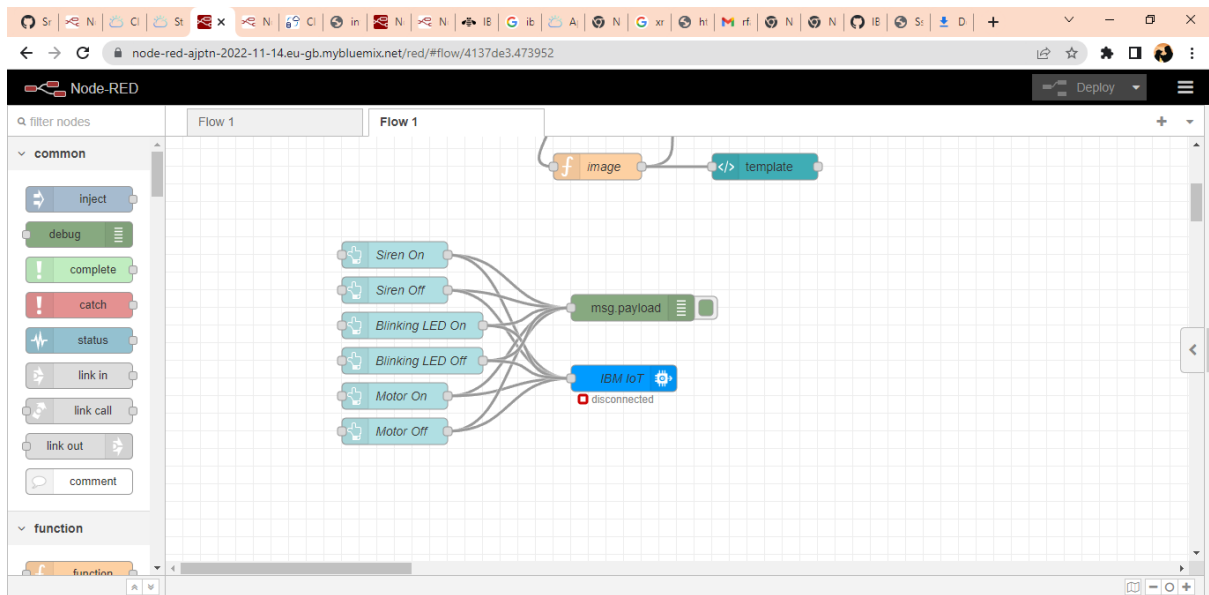
The screenshot shows the Cloudant interface. The left sidebar contains navigation options: All Documents, Query, Permissions, Changes, Design Documents, and library. The main area displays a list of documents in a table format. The table has columns: id, key, and value. The table lists 14 documents, each with a unique id and key, and a value containing a JSON object. The bottom of the interface shows 'Showing document 1 - 14. Documents per page: 20'.

id	key	value
1dd34caa2581a5886ea74887e72ff...	1dd34caa2581a5886ea74887e72ff...	{"rev": "1-218da3c7e8f8ad57857db..."}
1dd34caa2581a5886ea74887e7344...	1dd34caa2581a5886ea74887e7344...	{"rev": "1-4a6b29d18673b825f353..."}
53148865eeeb9ef279e9bdc440178...	53148865eeeb9ef279e9bdc440178...	{"rev": "1-a7b25989e66a3f95f9937..."}
8cad23ff4199b3b9001aa3f79d4e22...	8cad23ff4199b3b9001aa3f79d4e22...	{"rev": "5-3b0938551f3ed6a7227f1..."}
_design/library	_design/library	{"rev": "1-c93136490a0976308f8b3..."}
a18d03c517dcea0418e1798ea4306...	a18d03c517dcea0418e1798ea4306...	{"rev": "1-5dce8e1c9dfbe02761a6a..."}
b389af87c96b647b93475d9960ec...	b389af87c96b647b93475d9960ec...	{"rev": "1-fce6893417afb3c5f9216d..."}
b52400c8b8c77868d01ac0d79d1b5...	b52400c8b8c77868d01ac0d79d1b5...	{"rev": "1-03881aed59be4df993f40..."}
b52400c8b8c77868d01ac0d79d24e...	b52400c8b8c77868d01ac0d79d24e...	{"rev": "1-896d1960c10cf1a8f88b4..."}
dd4bb07bc64be49062fb4e7092d07...	dd4bb07bc64be49062fb4e7092d07...	{"rev": "1-54f592e02180047e41ab7..."}
ea3c73d9ca645d269298fe5b64eb8...	ea3c73d9ca645d269298fe5b64eb8...	{"rev": "1-5a236957426b03decc14..."}

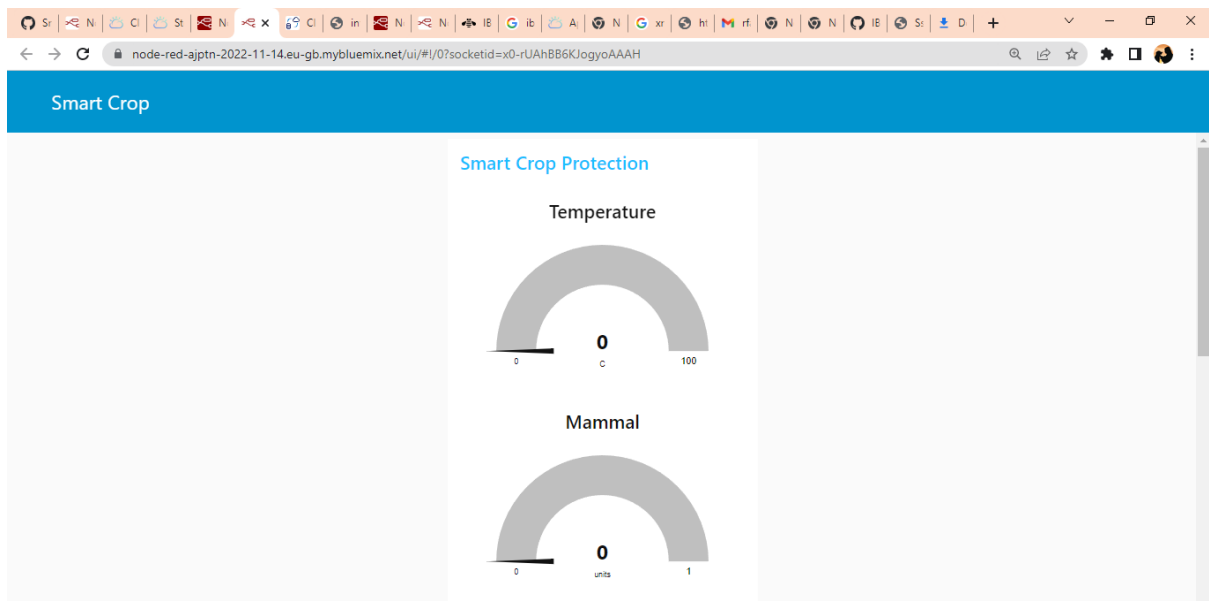


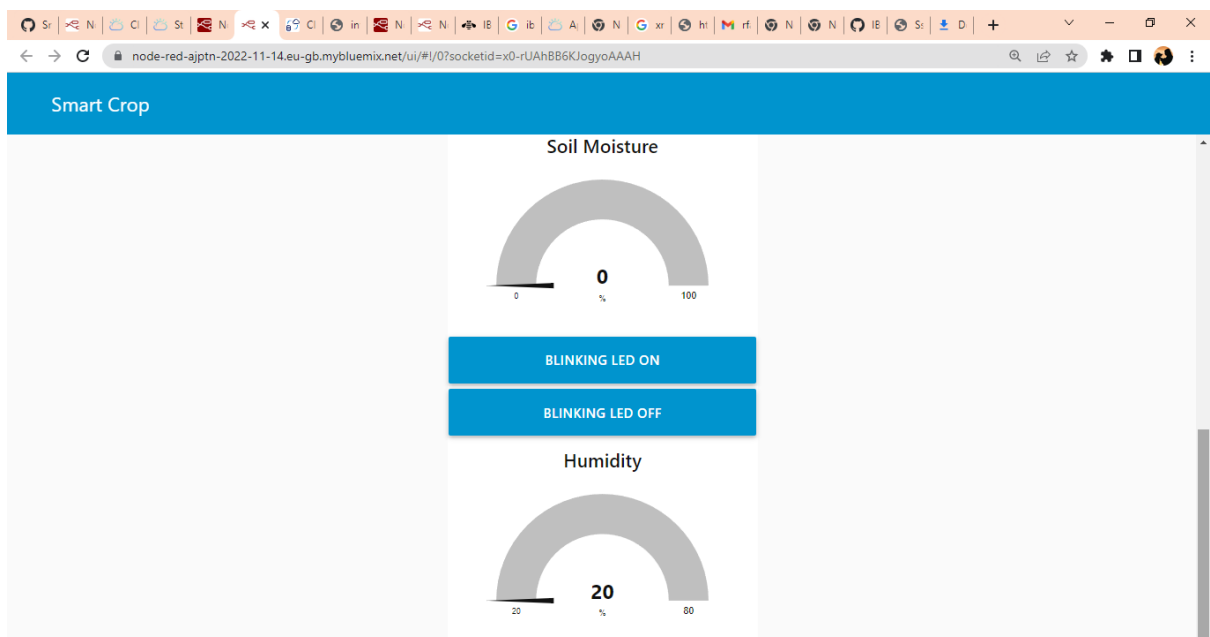
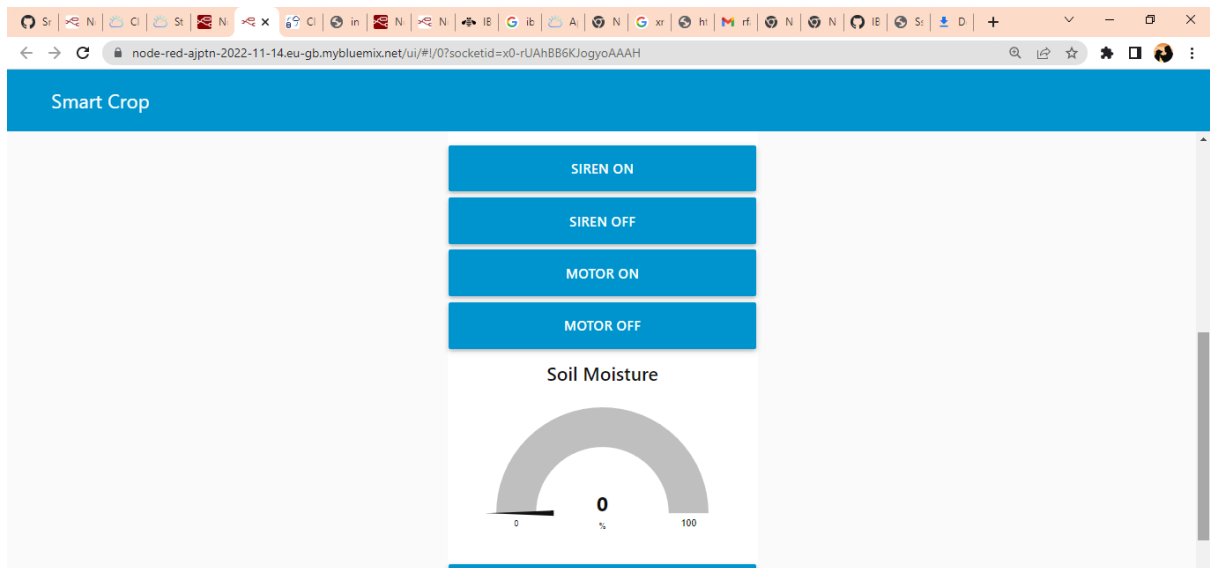
Node-Red Flow:





Web application before Connection:





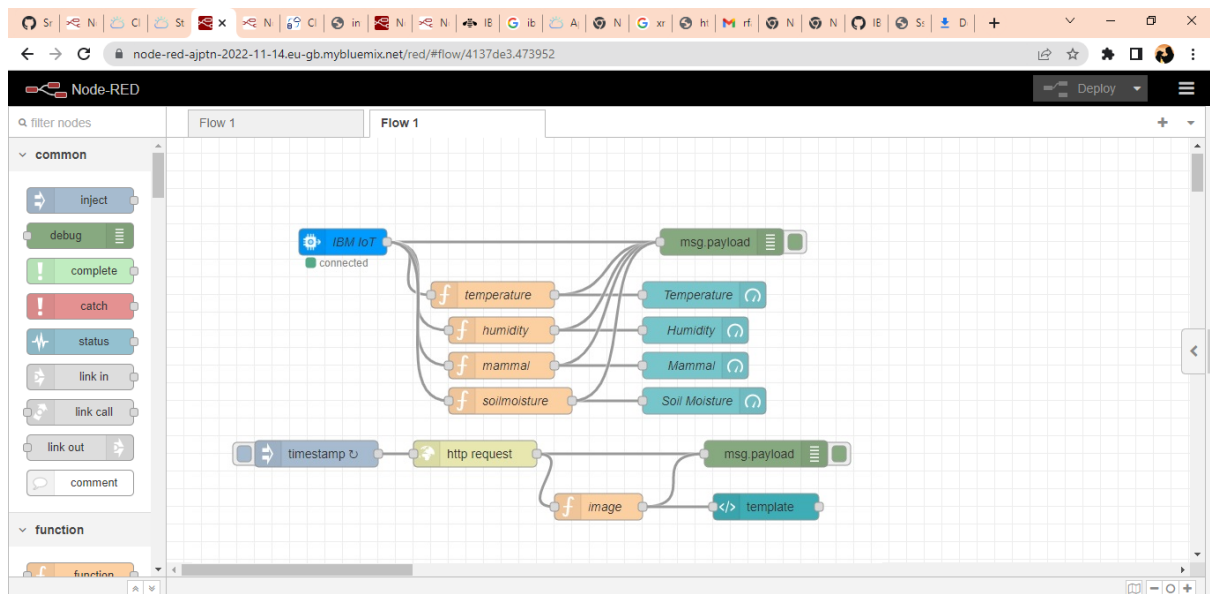
Connected with IBM Watson IoT

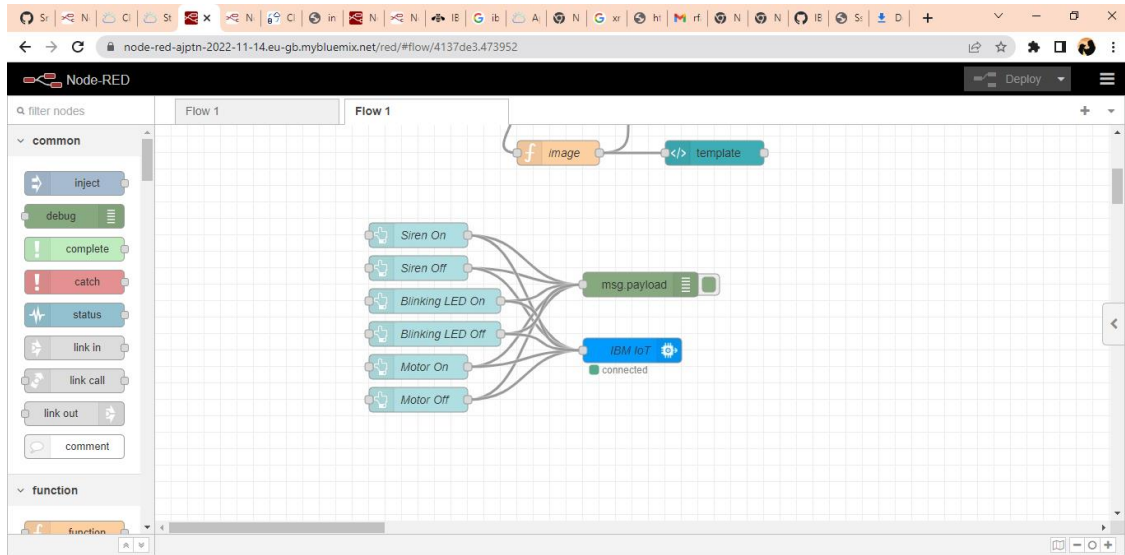
The screenshot shows the IBM Watson IoT Platform dashboard. The main panel displays a table of simulated events:

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..."}

Below the table, it indicates "Items per page 50" and "1-2 of 2 items".

A side panel titled "Simulations" is open, showing "1/50 Simulations Running". It includes a "New Simulation" button and a "Device Type" dropdown set to "RaspberryPi". Under "1 Device", it lists "24102001" with a "1 x" multiplier. At the bottom, there are buttons for "Create Simulated Device" and "Use Registered Device".

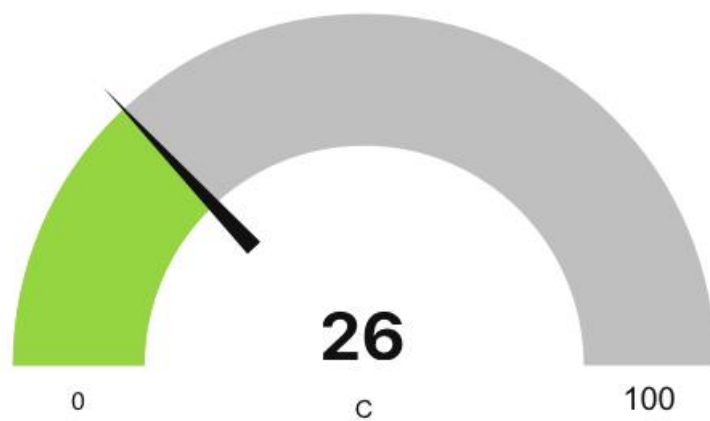




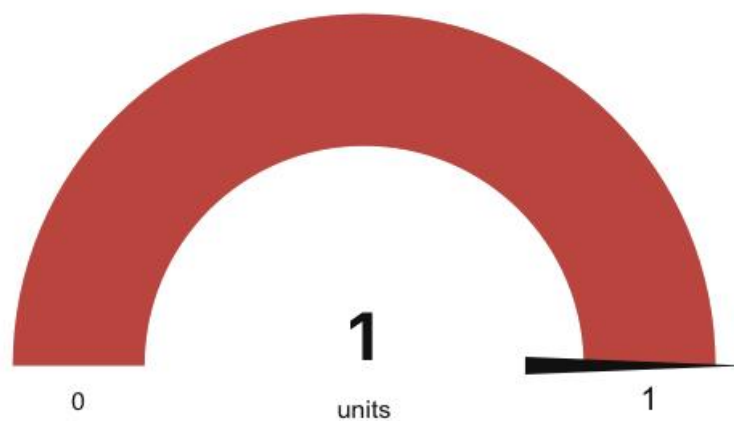
Smart Crop

Smart Crop Protection

Temperature



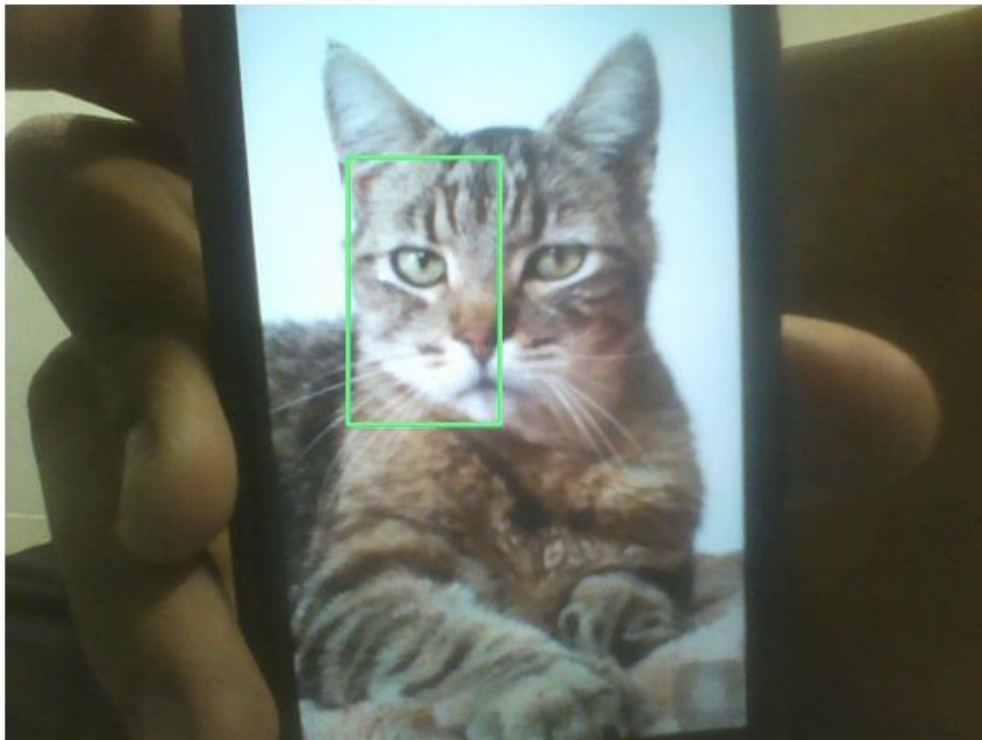
Mammal



Smart Crop

SIREN ON

SIREN OFF

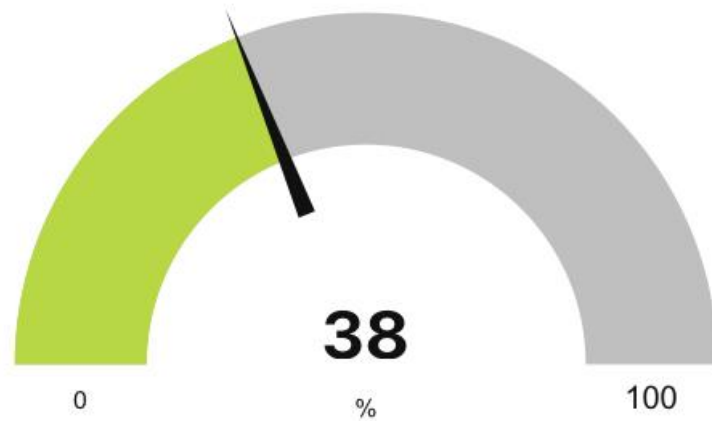


MOTOR ON

MOTOR OFF

Smart Crop

Soil Moisture



BLINKING LED ON

BLINKING LED OFF

Humidity

