

Project Development Phase

SPRINT – 4

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| Date | 15 November 2022 |
| Team ID | PNT2022TMID19796 |
| Project Name | IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE |

Cloud Object Storage:

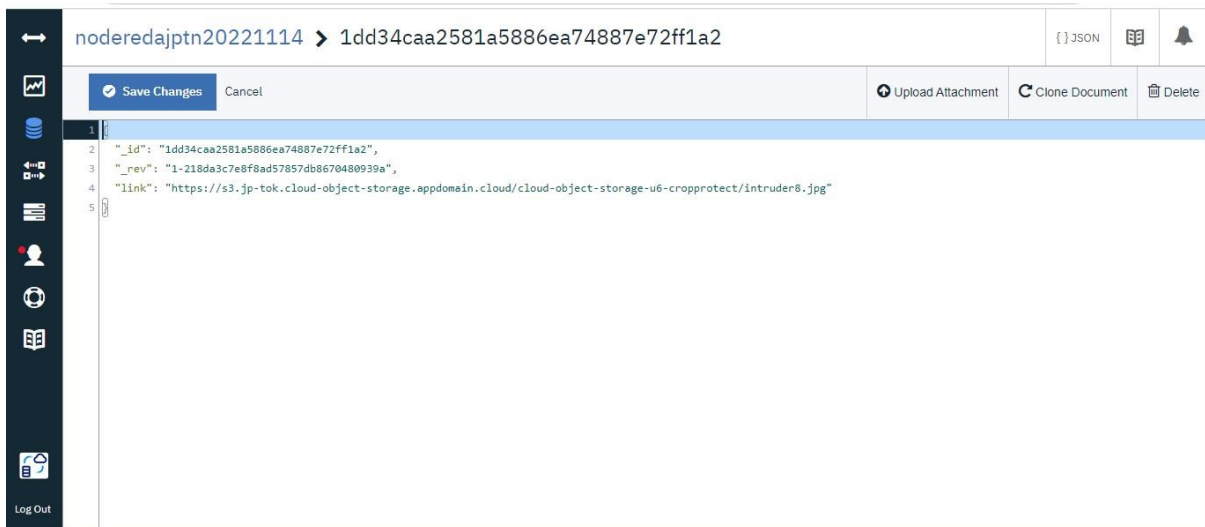
The screenshot shows the AWS Cloud Object Storage console for the 'cropprotect' bucket. The 'Objects' tab is selected, showing a list of files. The left sidebar contains navigation links for various storage-related features.

| 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 |

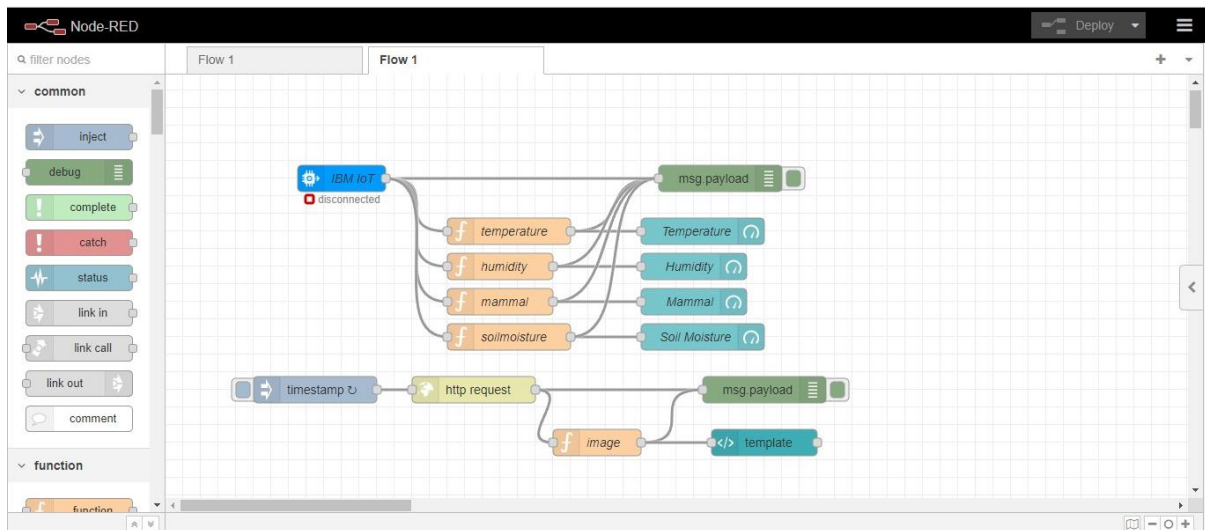
Cloudant:

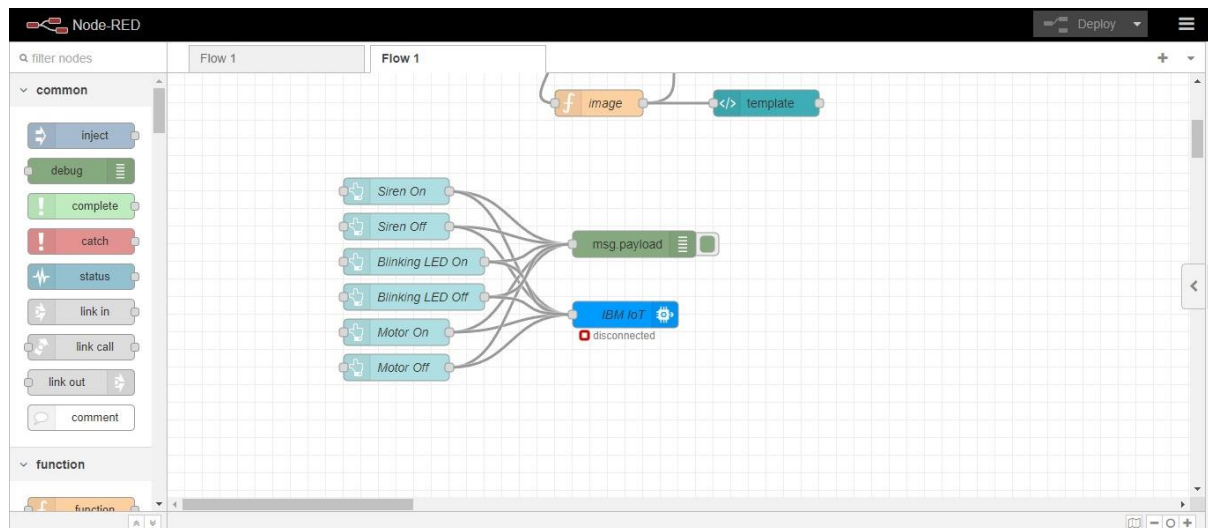
The screenshot shows the Cloudant console for the 'noderedajptn2022...' database. The 'Table' view is selected, showing a list of documents. The left sidebar contains navigation links for various database-related features.

| id | key | value |
|-----------------------------------|-----------------------------------|---------------------------------------|
| 1dd34caa2581a5886ea74887e72ff... | 1dd34caa2581a5886ea74887e72ff... | { "rev": "1-218da3c7e8f8ad57857db... |
| 1dd34caa2581a5886ea74887e7344... | 1dd34caa2581a5886ea74887e7344... | { "rev": "1-4a6b29d18673b825f353... |
| 53148865eecb9ef279e9bdc440178... | 53148865eecb9ef279e9bdc440178... | { "rev": "1-a7b25989e66e3f95f937... |
| 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... |

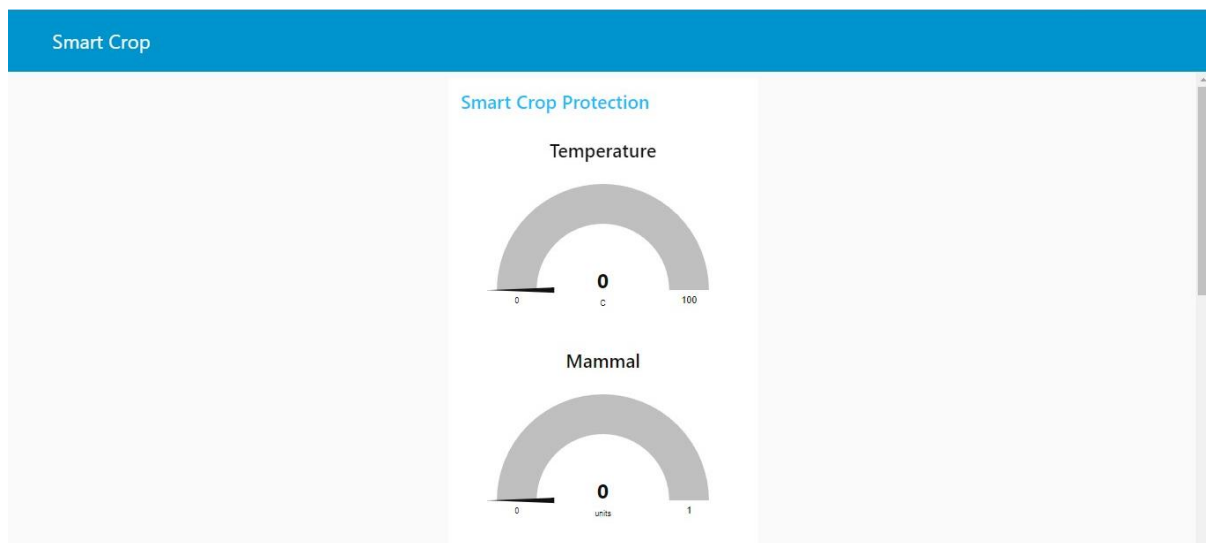


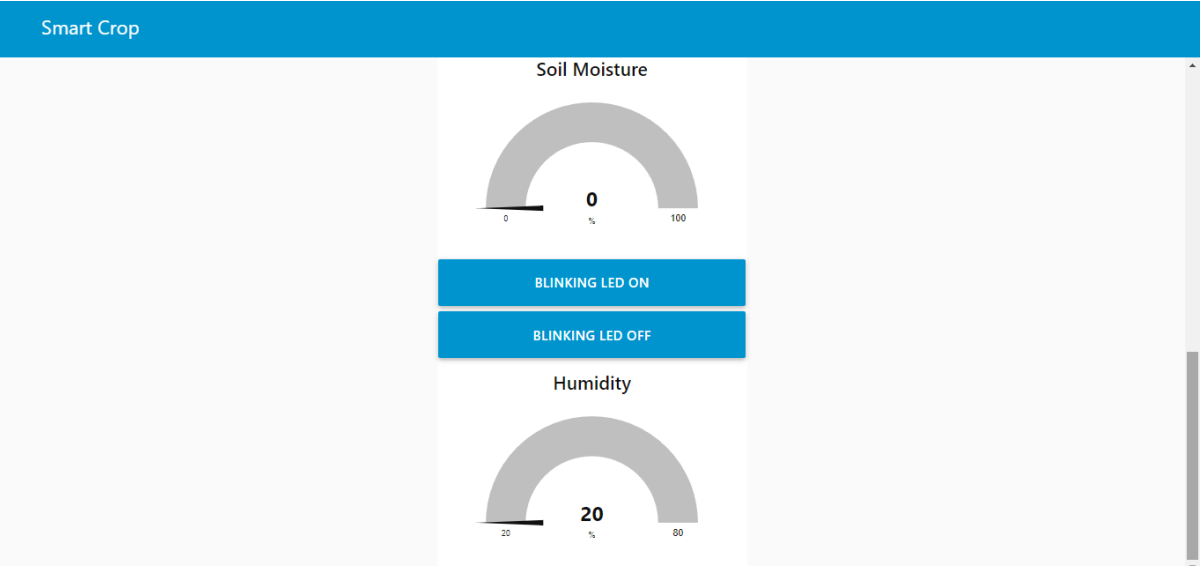
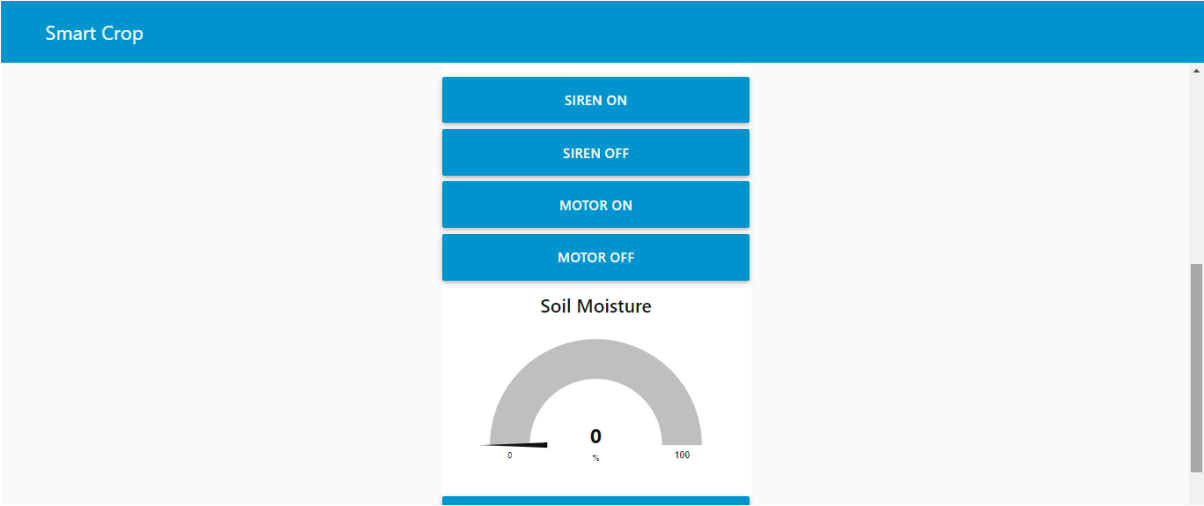
Node-Red Flow:





Web application before Connection:

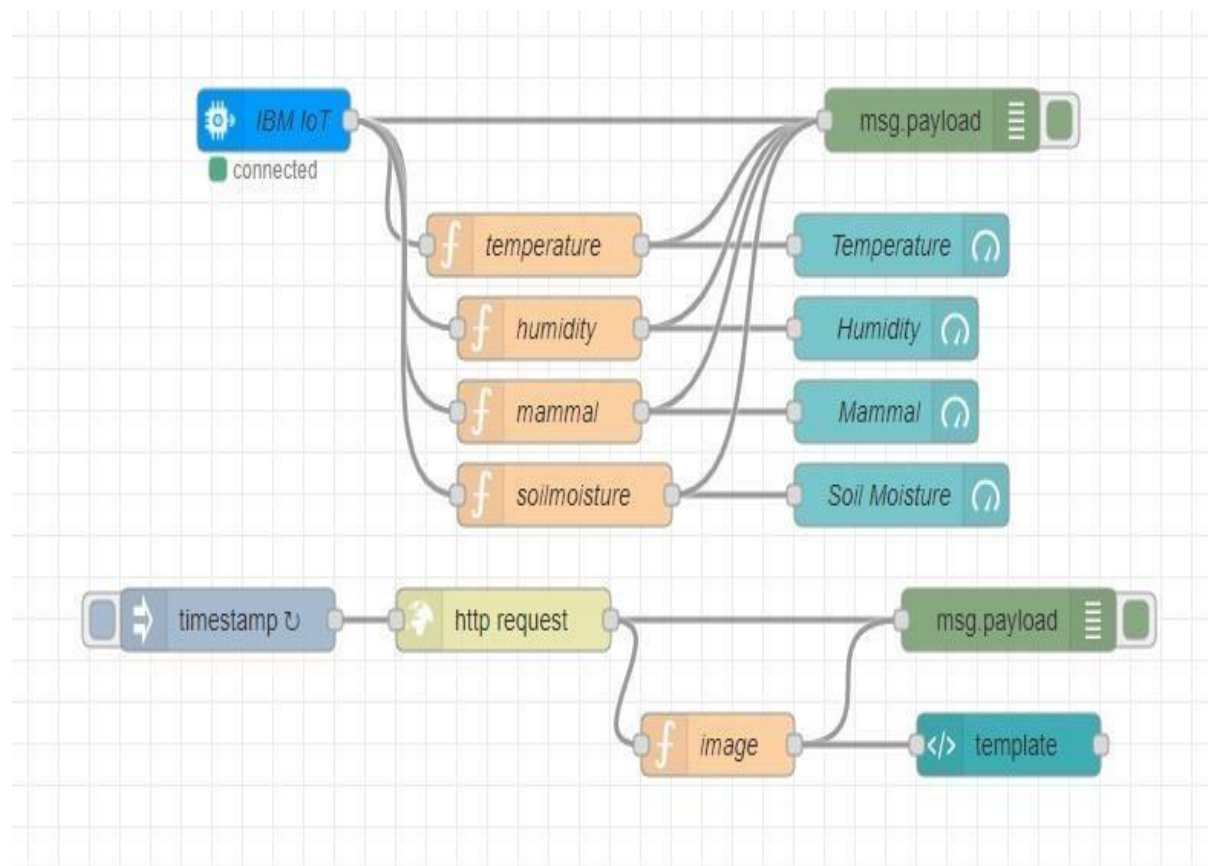


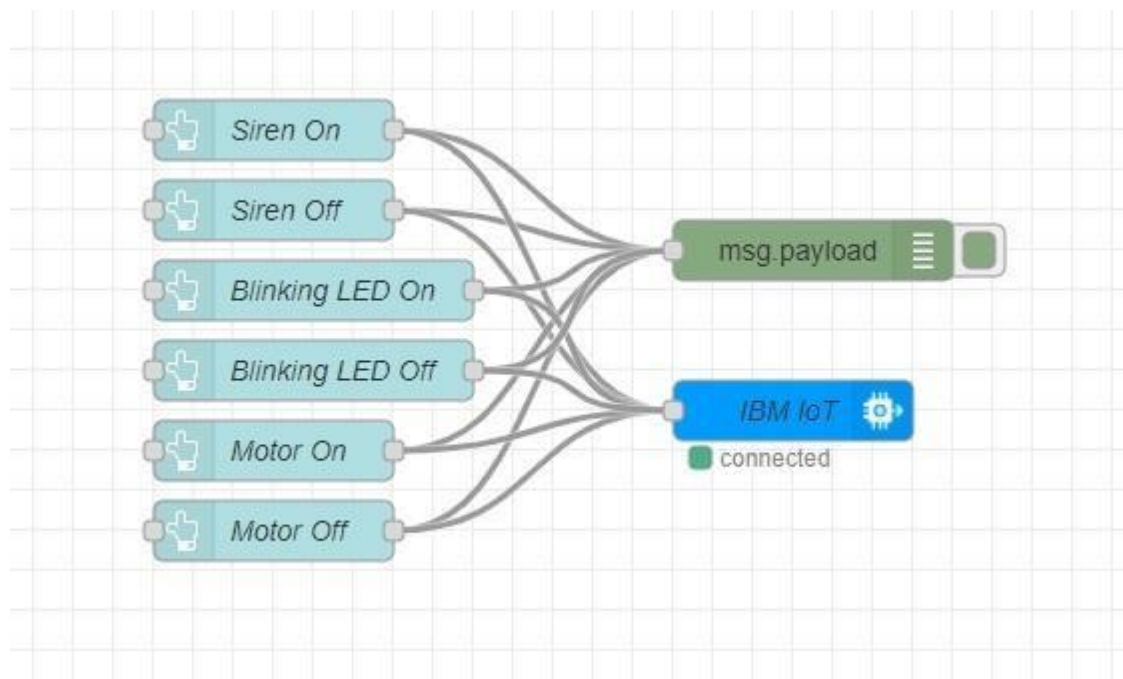


Connected with IBM Watson IoT Platform:

The screenshot displays the IBM Watson IoT Platform interface. On the left, a sidebar contains navigation icons. The main area shows a table with two columns: 'Event' and 'Value'. The table lists five events, all labeled 'event_1', with values representing JSON objects containing humidity, temperature, and soilmoisture data. A sidebar on the right, titled 'Simulations', shows '1/50 Simulations Running' and a 'New Simulation' button. Below this, it lists 'Device Type' as 'RaspberryPi' and '1 Device' with ID '24102001'. At the bottom of the sidebar are buttons for 'Create Simulated Device' and 'Use Registered Device'.

| 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..."} |

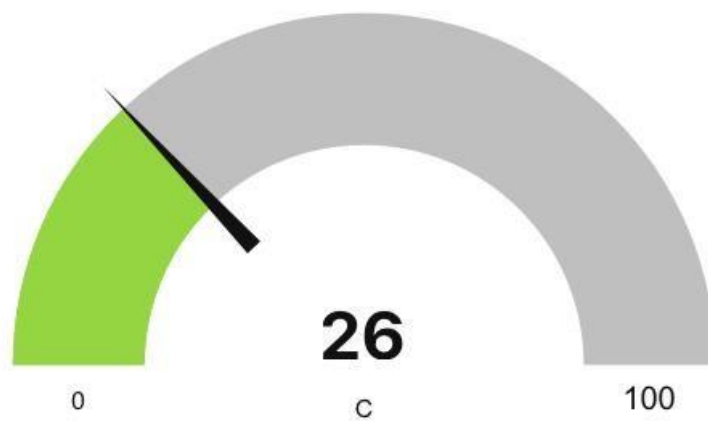




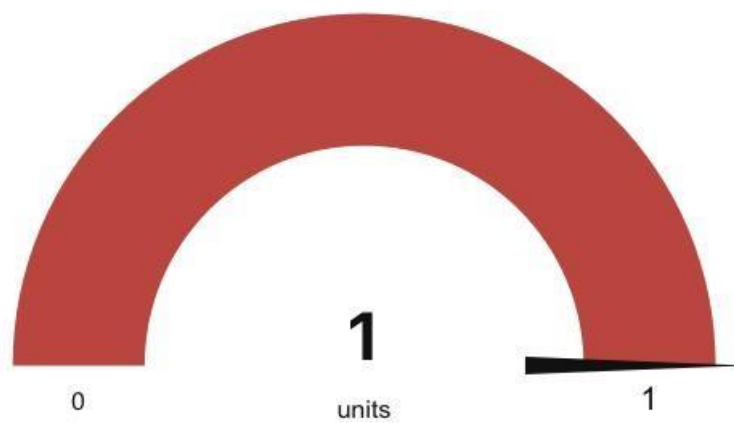
Smart Crop

Smart Crop Protection

Temperature



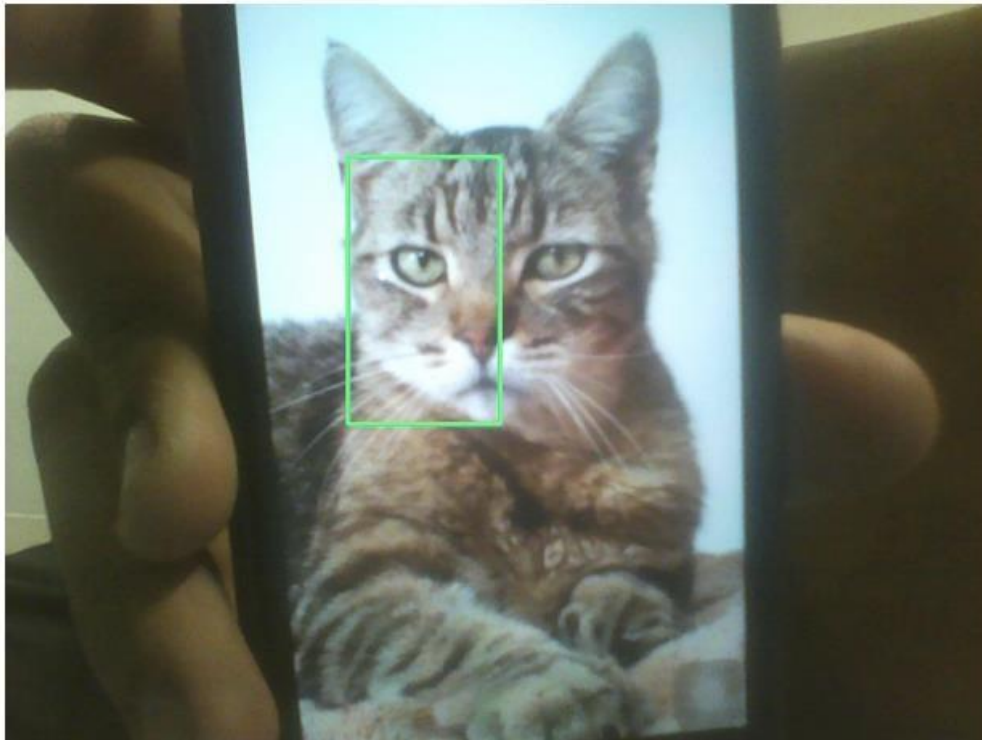
Mammal



Smart Crop

SIREN ON

SIREN OFF

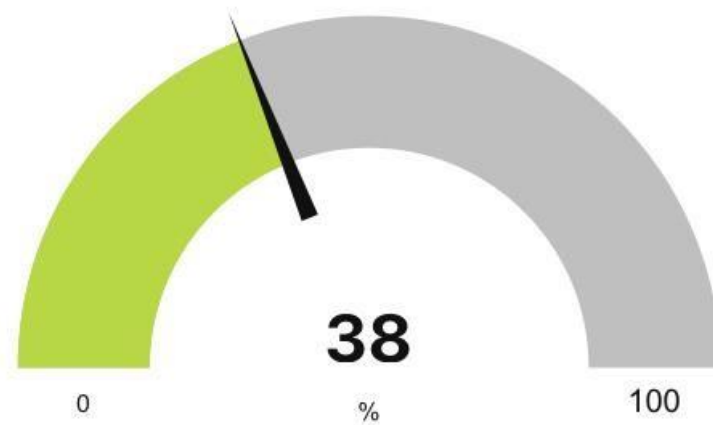


MOTOR ON

MOTOR OFF

Smart Crop

Soil Moisture



BLINKING LED ON

BLINKING LED OFF

Humidity

