



ALMIGHT

TESA TOP GUN RALLY 2019





BACKGROUND STUDY

Ideal Solution



Security

Security



location

Location



Temperature

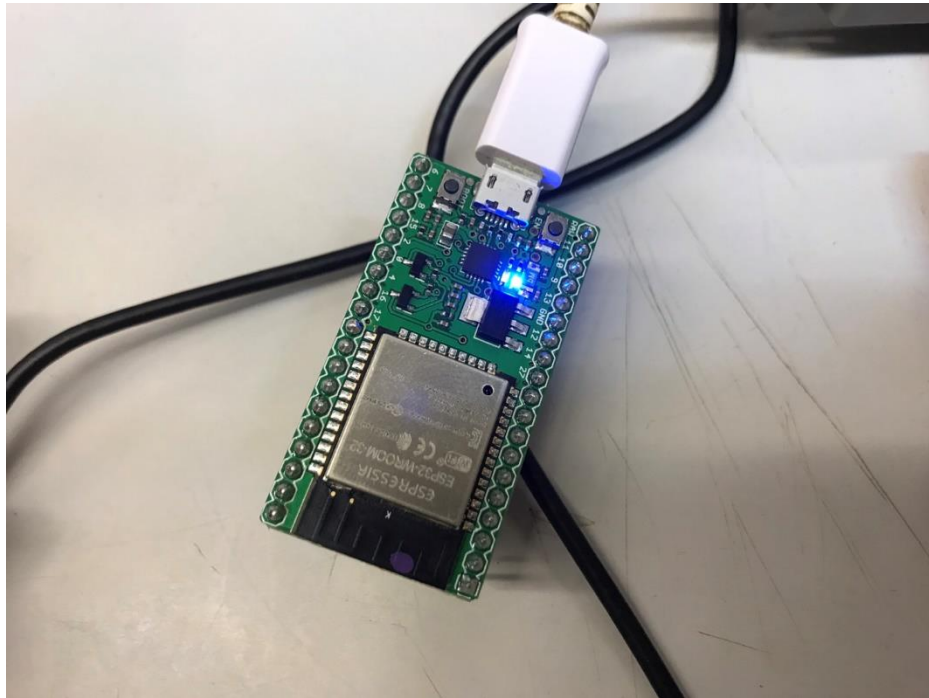
Temperature



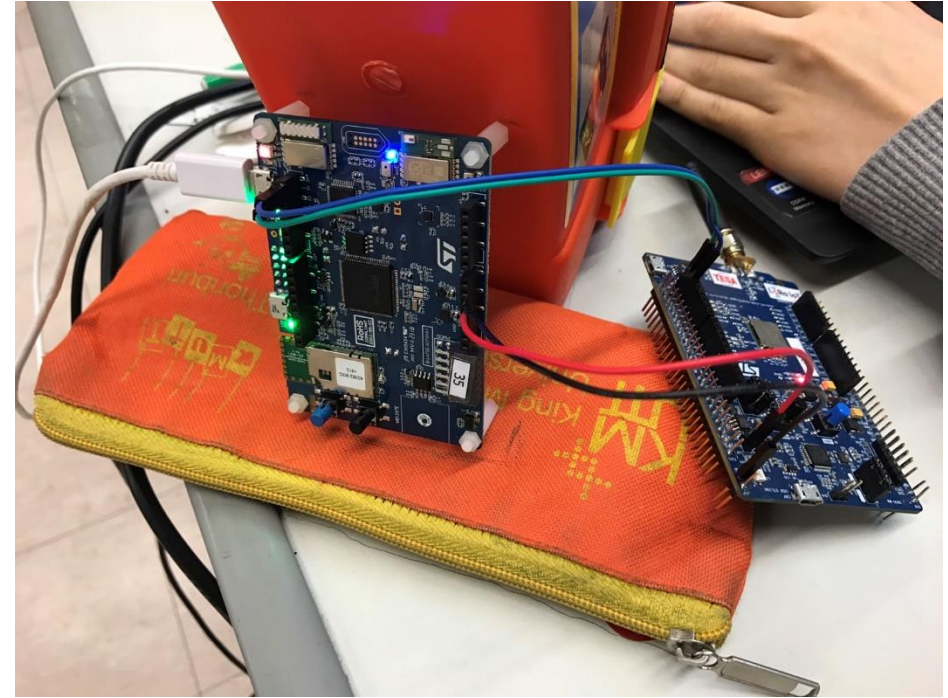
Line Bot ,Beacon

Line application

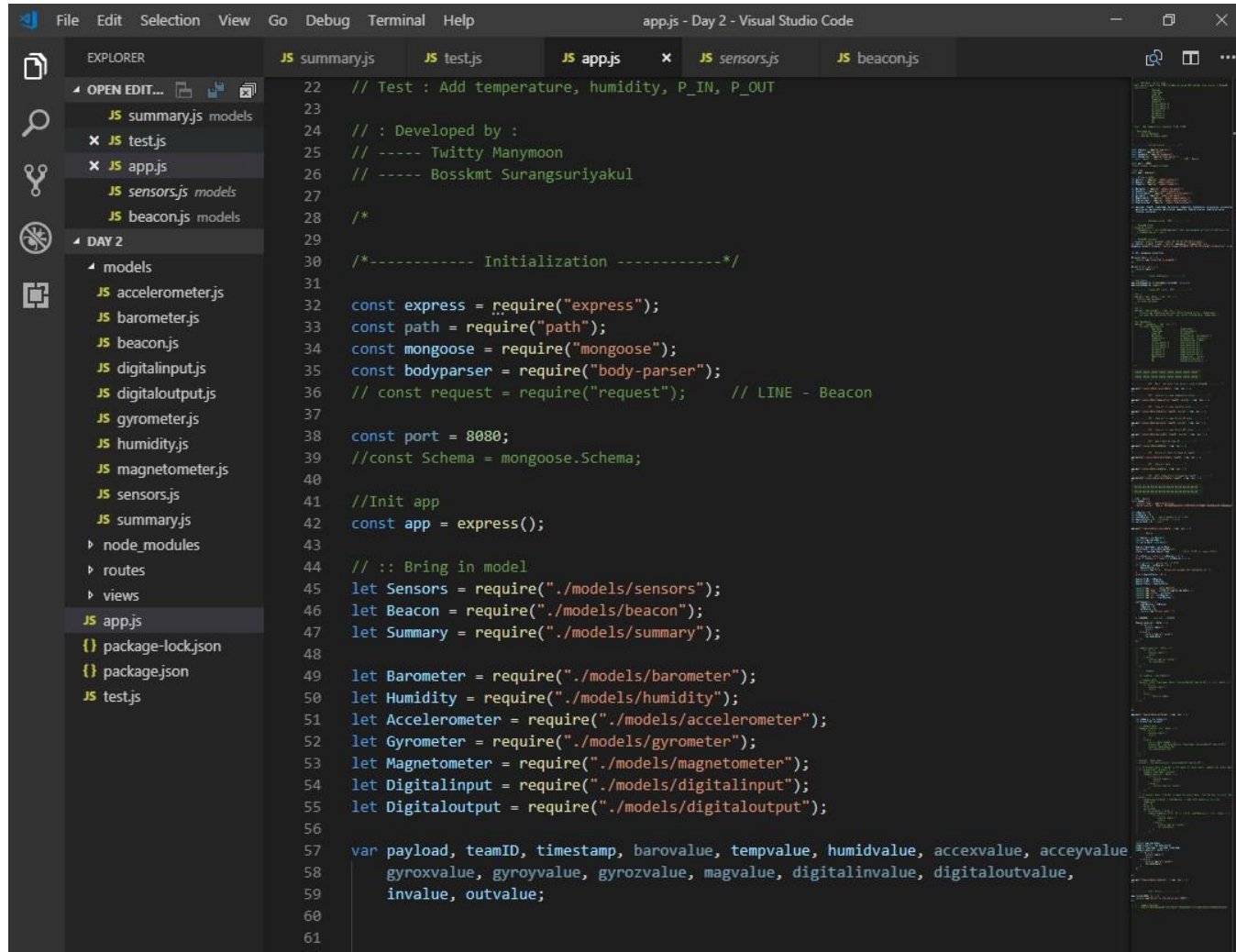
AI



Hardware



Server



```
22 // Test : Add temperature, humidity, P_IN, P_OUT
23
24 // : Developed by :
25 // ----- Twitty Manymoon
26 // ----- Bosskmt Surangsuriyakul
27
28 /*
29
30 /*----- Initialization -----*/
31
32 const express = require("express");
33 const path = require("path");
34 const mongoose = require("mongoose");
35 const bodyparser = require("body-parser");
36 // const request = require("request"); // LINE - Beacon
37
38 const port = 8080;
39 //const Schema = mongoose.Schema;
40
41 //Init app
42 const app = express();
43
44 // :: Bring in model
45 let Sensors = require("./models/sensors");
46 let Beacon = require("./models/beacon");
47 let Summary = require("./models/summary");
48
49 let Barometer = require("./models/barometer");
50 let Humidity = require("./models/humidity");
51 let Accelerometer = require("./models/accelerometer");
52 let Gyrometer = require("./models/gyrometer");
53 let Magnetometer = require("./models/magnetometer");
54 let Digitalinput = require("./models/digitalinput");
55 let Digitaloutput = require("./models/digitaloutput");
56
57 var payload, teamID, timestamp, barovalue, tempvalue, humidvalue, accexvalue, acceyvalue,
58     gyrovalue, gyroyvalue, gyrozvalue, magvalue, digitalinvalue, digitaloutvalue,
59     invalue, outvalue;
```

centos@iris-tesatopgun-almight:/home/centos/Almight_TGR_day2

```
all saved
----- ALMIGHT HARDWARE -----
payload : "006701060168640202083403020384"
body : "AA01DBCA12EF1135"
teamID : 35
timestamp : "2019-01-11T11:06:38.701+07:00"
temp : 26.20
hunmid : 50.00
in : 21
out : 9
all saved
----- ALMIGHT HARDWARE -----
payload : "006701080168640202083403020384"
body : "AA01DBCA12EF1135"
teamID : 35
timestamp : "2019-01-11T11:07:08.718+07:00"
temp : 26.40
hunmid : 50.00
in : 21
out : 9
all saved
----- ALMIGHT HARDWARE -----
payload : "006701090168640202083403020384"
body : "AA01DBCA12EF1135"
teamID : 35
timestamp : "2019-01-11T11:07:38.735+07:00"
temp : 26.50
hunmid : 50.00
in : 21
out : 9
```

Connect View Collection Help

My Cluster

1 DBS 3 COLLECTIONS

filter

Almight_Integration

beacons

sensors

summaries

202.139.192.89:27017

STANDALONE

MongoDB 4.0.4 Community

Almight_Integration.sensors

DOCUMENTS 990 TOTAL SIZE 115.6KB AVG. SIZE 120B INDEXES 1 TOTAL SIZE 60.0KB AVG. SIZE 60.0KB

Documents

Aggregations

Schema

Explain Plan

Indexes

Validation

FILTER

OPTIONS

FIND

RESET

...

INSERT DOCUMENT

VIEW

LIST

TABLE

Displaying documents 1 - 20 of 990 < > ↺

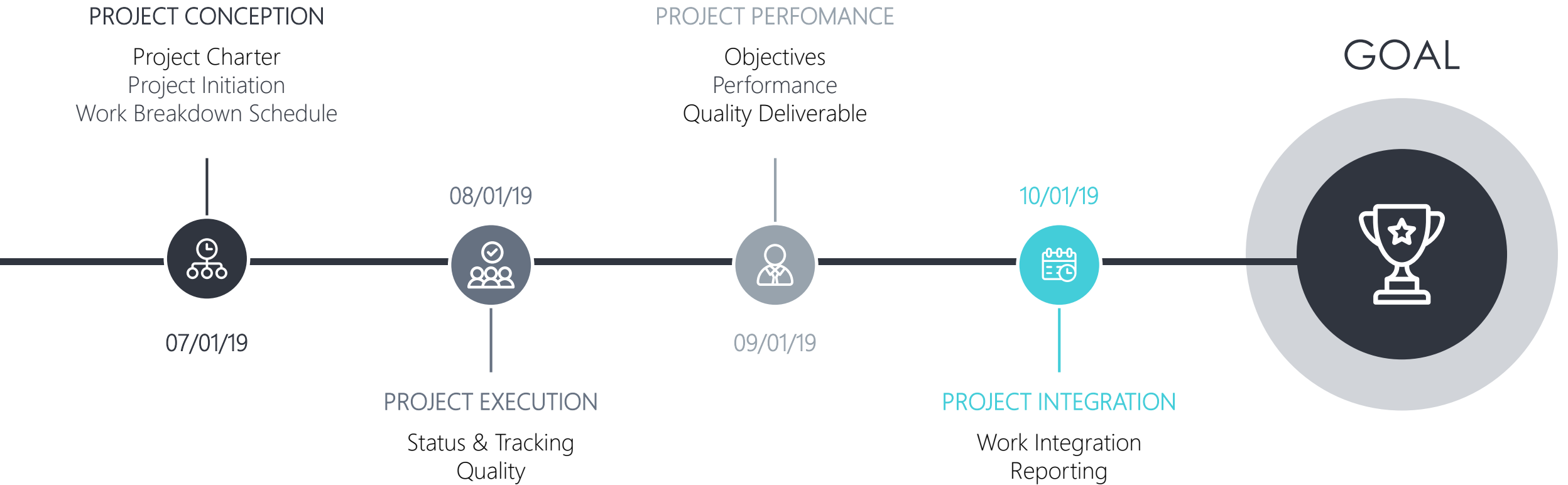
sensors

	_id ObjectId	Timestamp Date	TeamID Int32	Temperature Double	Humidity Mixed	P_IN Int32	P_O
1	5c376767cd99da134dd94366	2019-01-10 22:40:23.217	35	29.5	53	25	36
2	5c3767c1cd99da134dd94371	2019-01-10 22:41:53.276	35	29.5	52.5	25	36
3	5c3767dfcd99da134dd9437a	2019-01-10 22:42:23.301	35	29.5	52	25	36
4	5c3767fddcd99da134dd94382	2019-01-10 22:42:53.293	35	29.5	51.5	25	36
5	5c37681bcd99da134dd9438a	2019-01-10 22:43:23.311	35	29.6	52	25	36
6	5c376839cd99da134dd94392	2019-01-10 22:43:53.351	35	29.6	52	25	36
7	5c376857cd99da134dd9439a	2019-01-10 22:44:23.399	35	29.6	52.5	25	36
8	5c376875cd99da134dd943a2	2019-01-10 22:44:53.370	35	29.5	52	25	36
9	5c376893cd99da134dd943aa	2019-01-10 22:45:23.757	35	29.6	52	25	36
10	5c3768b1cd99da134dd943b2	2019-01-10 22:45:53.421	35	29.6	52	25	36
11	5c3768cfcd99da134dd943ba	2019-01-10 22:46:23.587	35	29.7	52.5	25	36
12	5c3768edcd99da134dd943c2	2019-01-10 22:46:53.445	35	29.7	52.5	25	36
13	5c376929cd99da134dd943ca	2019-01-10 22:47:53.464	35	29.7	52	25	36
14	5c376947cd99da134dd943d2	2019-01-10 22:48:23.489	35	29.7	52	25	36
15	5c376965cd99da134dd943da	2019-01-10 22:48:53.505	35	29.6	51.5	25	36
16	5c376983cd99da134dd943e2	2019-01-10 22:49:23.526	35	29.5	52	25	36
17	5c3769a1cd99da134dd943ea	2019-01-10 22:49:53.541	35	29.5	52	25	36
18							

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PROJECT MANAGEMENT



80%

Hardware

50 %

AI

100%

Server

0 1 2 3 4 5



Ideal outcome



THANK YOU