Appendixes

Appendix A: Code Segment on Arduino

```
#include <Adafruit_ADS1X15.h>
#include <ADS1115-Driver.h>
#include <WiFi.h>
#include <PubSubClient.h>

// WiFi
const char* ssid = "Galaxy Note9";
const char* password = "87654321";

// MQTT Broker
const char *mqtt_broker = "broker.hivemq.com";
// const char *topic1 = "esp32_1/1";
const char *mqtt_username = "Admin123#";
const char *mqtt_password = "Admin123#";
const int mqtt_port = 1883;

WiFiClient espClient;
PubSubClient client(espClient);
Adafruit_ADS1115 ads;


//*************************************************************************
*

  // sensor pin mode
```

```
const int sensor4 = 36;
const int sensor5 = 39;
const int sensor6 = 33;
const int sensor7 = 32;
const int sensor8 = 35;
const int sensor9 = 34;


//*************************************************************************************
*


void setup() {
  // initialize serial communication:
  Serial.begin(115200);
  ads.begin();


   // connecting to a WiFi network
 WiFi.mode(WIFI_STA);
 WiFi.begin(ssid, password);
 while (WiFi.status() != WL_CONNECTED) {
    delay(500);
    Serial.println("Connecting to WiFi..");
 }
 Serial.println("Connected to the WiFi network");
 //connecting to a mqtt broker
 client.setServer(mqtt_broker, mqtt_port);
 client.setCallback(callback);
 while (!client.connected()) {
```

```
      String client_id = "esp32";
      //client_id += String(WiFi.macAddress());
      Serial.printf("The client %s connects to the public mqtt broker\n", client_id.c_str());
      if (client.connect(client_id.c_str())) {
         Serial.println("MQTT broker connected");
      } else {
         Serial.print("\n failed with state ");
         Serial.print(client.state());
         delay(2000);
      }
   }
  }


//*************************************************************************
*

  void loop() {


     float sensor_1 = 0;
     float sensor_2 = 0;
     float sensor_3 = 0;
     float sensor_4 = 0;
     float sensor_5 = 0;
     float sensor_6 = 0;
     float sensor_7 = 0;
     float sensor_8 = 0;
     float sensor_9 = 0;
```

```
//Calibrate vlaues
float calibrate_S1 = 2.45;
float calibrate_S2 = 1.64;
float calibrate_S3 = 1.25;
float calibrate_S4 = 0.69;
float calibrate_S5 = 0.40;
float calibrate_S6 = 0.89;
float calibrate_S7 = 0.40;
float calibrate_S8 = 1.11;
float calibrate_S9 = 0.91;

float sensor_area = 0.0001267278;

for(int i=0; i <= 60; i++){

  int16_t adc0 = ads.readADC_SingleEnded(0);  // Read analog value from channel A0
  int16_t adc1 = ads.readADC_SingleEnded(1);  // Read analog value from channel A1
  int16_t adc2 = ads.readADC_SingleEnded(2);  // Read analog value from channel A2

  //Sensor 9
  Serial.print("Sensor_9:");
  Serial.println(analogRead(sensor9));

  Serial.print("Pressure ");
  Serial.print(i);
  Serial.print(": ");
  Serial.println(analogRead(sensor9));
```

```
sensor_9 = sensor_9 + analogRead(sensor9);

//Sensor 8
Serial.print("Sensor_8:");
Serial.println(analogRead(sensor8));

Serial.print("Pressure ");
Serial.print(i);
Serial.print(": ");
Serial.println(analogRead(sensor8));

sensor_8 = sensor_8 + analogRead(sensor8);

//Sensor 7
Serial.print("Sensor_7:");
Serial.println(analogRead(sensor7));

Serial.print("Pressure ");
Serial.print(i);
Serial.print(": ");
Serial.println(analogRead(sensor7));

sensor_7 = sensor_7 + analogRead(sensor7);

//Sensor 6
Serial.print("Sensor_6:");
Serial.println(analogRead(sensor6));
```

```
Serial.print("Pressure ");
Serial.print(i);
Serial.print(": ");
Serial.println(analogRead(sensor6));

sensor_6 = sensor_6 + analogRead(sensor6);

//Sensor 5
Serial.print("Sensor_5:");
Serial.println(analogRead(sensor5));
Serial.println(analogRead(25));

Serial.print("Pressure ");
Serial.print(i);
Serial.print(": ");
Serial.println(analogRead(sensor5));

sensor_5 = sensor_5 + analogRead(sensor5);

//Sensor 4
Serial.print("Sensor_4:");
Serial.println(analogRead(sensor4));

Serial.print("Pressure ");
Serial.print(i);
Serial.print(": ");
Serial.println(analogRead(sensor4));
```

```
sensor_4 = sensor_4 + analogRead(sensor4);

//Sensor 3
Serial.print("Sensor_3:");
Serial.println(adc0);

Serial.print("Pressure ");
Serial.print(i);
Serial.print(": ");
Serial.println(adc0);

sensor_3 = sensor_3 + adc0;

//Sensor 2
Serial.print("Sensor_2:");
Serial.println(adc1);

Serial.print("Pressure ");
Serial.print(i);
Serial.print(": ");
Serial.println(adc1);

sensor_2 = sensor_2 + adc1;

//Sensor 1
Serial.print("Sensor_1:");
Serial.println(adc2);
```

```
  Serial.print("Pressure ");
  Serial.print(i);
  Serial.print(": ");
  Serial.println(adc2);

  sensor_1 = sensor_1 + adc2;

  Serial.println("-----------------------------------");
  delay(1000);

sensor_1 = sensor_1/calibrate_S1;
sensor_1 = sensor_1/sensor_area;

sensor_2 = sensor_2/calibrate_S2;
sensor_2 = sensor_2/sensor_area;

sensor_3 = sensor_3/calibrate_S3;
sensor_3 = sensor_3/sensor_area;

sensor_4 = sensor_4/calibrate_S4;
sensor_4 = sensor_4/sensor_area;

sensor_5 = sensor_5/calibrate_S5;
sensor_5 = sensor_5/sensor_area;

sensor_6 = sensor_6/calibrate_S6;
sensor_6 = sensor_6/sensor_area;
```

```
    sensor_7 = sensor_7/calibrate_S7;
    sensor_7 = sensor_7/sensor_area;

    sensor_8 = sensor_8/calibrate_S8;
    sensor_8 = sensor_8/sensor_area;

    sensor_9 = sensor_9/calibrate_S9;
    sensor_9 = sensor_9/sensor_area;

    client.publish("sensor/1", String(sensor_1).c_str());
    client.publish("sensor/2", String(sensor_2).c_str());
    client.publish("sensor/3", String(sensor_3).c_str());
    client.publish("sensor/4", String(sensor_4).c_str());
    client.publish("sensor/5", String(sensor_5).c_str());
    client.publish("sensor/6", String(sensor_6).c_str());
    client.publish("sensor/7", String(sensor_7).c_str());
    client.publish("sensor/8", String(sensor_8).c_str());
    client.publish("sensor/9", String(sensor_9).c_str());

    delay(1000);
   }

  }

//**************************************************************************
*
```

```
void callback(char *topic, byte *payload, unsigned int length) {
 Serial.print("Message arrived in topic: ");
 Serial.println(topic);
 Serial.print("Message:");
 for (int i = 0; i < length; i++) {
    Serial.print((char) payload[i]);
 }
 Serial.println();
 Serial.println("-----------------------");
}
```

Appendix B: Code Segment on Interface 1

```
import React from "react";
import Header from "../components/Header";
import { useNavigate } from "react-router-dom";
import "../styles/styles.css";

function Interface1() {
  const navigate = useNavigate();

  const handleClick = () => {
    navigate("/interface2");
  };
  const handleClick2 = () => {
    navigate("/interface3");
  };
```

```
  return (
    <div className="maindiv">
      <Header />
      <div className="maindiv1">
        <div className="maindiv2">
          <div>
            <p className="font1">INSOLE 1.0v</p>
            <div className="maindiv3">
              <button className="button1" onClick={handleClick}>
                FOOT TYPE
              </button>
              <button className="button1" onClick={handleClick2}>
                SPORT MODE
              </button>
            </div>
          </div>
        </div>
      </div>
    </div>
  );
}

export default Interface1;
```

Appendix C: Code Segment on Interface 2

```
import React from "react";
import Header from "../components/Header";
import { useNavigate } from "react-router-dom";
```

```
function Interface2() {
  const navigate = useNavigate();

  const handleClick = () => {
    navigate("/interface4");
  };

  return (
    <div className="maindiv">
      <Header />
      <div className="maindiv1">
        <div className="maindiv2">
          <div>
            <div className="maindiv4">
              <div className="maindiv6">
                <p className="font2">NAME</p>
                <input className="input1"></input>
              </div>
              <div className="maindiv6">
                <p className="font2">AGE</p>
                <input className="input1"></input>
              </div>
              <div className="maindiv6">
                <p className="font2">WEIGTH</p>
                <input className="input1"></input>
              </div>
            </div>
```

```
          <div className="maindiv5">
            <button className="button1" onClick={handleClick}>
              START
            </button>
          </div>
        </div>
      </div>
    </div>
  </div>
 );
}

export default Interface2;
```

Appendix D: Code Segment on Interface 3

```
import React, { useState, useEffect } from "react";
import Header from "../components/Header";
import { useNavigate } from "react-router-dom";
import { projectFirestore } from "../components/firebase-config";
import { ref, onValue, push, set } from "firebase/database";

function Interface3() {
  const navigate = useNavigate();
  const SportRef = ref(projectFirestore, "sensor/Sport");
  const [name, setName] = useState();
  const [sport, setSport] = useState();
  const [position, setPosition] = useState();
```

```
const [age, setAge] = useState();
const [gender, setGender] = useState();
const [weight, setWeight] = useState();
const handleClick = async (e) => {
 e.preventDefault();
 if (!name || !sport || !position || !age || !gender || !weight) {
  alert("Please fill in all the fields.");
  return;
 }
 try {
  // Add a new sport to the Firestore collection
  const newSportRef = push(SportRef, {
   Name: name,
   Sport: sport,
   Position: position,
   Age: age,
   Gender: gender,
   Weight: weight,
  });
  const snapshot = await newSportRef; // Wait for the promise to resolve
  const newSportKey = snapshot.key; // Get the unique ID (key) generated by Firebase
  console.log(newSportKey);
  await set(ref(projectFirestore, `sensor/startStop`), {
   value: 1,
   sportId: newSportKey,
  });

  // Optionally, you can clear the form after submitting
```

```
    alert("Sport Mode Started Successfully!"); // Set the success message
    navigate("/interface4", {
      state: {
        sportId: newSportKey,
      },
    });

    // Optionally, you can clear the success message after a few seconds

    // Optionally, you can navigate to a different page or show a success message
  } catch (error) {
    // Handle the error (you can show an error message to the user)
    console.error("Error Starting data collection:", error.message);
  }
};

return (
  <div className="maindiv">
    <Header />
    <div className="maindiv1">
      <div className="maindiv2">
        <div>
          <div className="maindiv7">
            <div className="maindiv6">
              <p className="font2">NAME</p>
              <input
                className="input1"
                type="text"
```

```
    id="name"
    name="name"
    value={name}
    onChange={(e) => {
      setName(e.target.value);
      console.log("Name:", name);
    }}
  ></input>
</div>
<div className="maindiv6">
  <p className="font2">SPORT</p>
  <input
    className="input1"
    type="text"
    id="name"
    name="name"
    value={sport}
    onChange={(e) => {
      setSport(e.target.value);
      console.log("sport:", sport);
    }}
  ></input>
</div>
<div className="maindiv6">
  <p className="font2">POSITION</p>
  <input
    className="input1"
    type="text"
```

```
    id="name"
    name="name"
    value={position}
    onChange={(e) => {
      setPosition(e.target.value);
      console.log("position:", position);
    }}
  ></input>
</div>
<div className="maindiv6">
  <p className="font2">AGE</p>
  <input
    className="input1"
    type="text"
    id="name"
    name="name"
    value={age}
    onChange={(e) => {
      setAge(e.target.value);
      console.log("age:", age);
    }}
  ></input>
</div>
<div className="maindiv6">
  <p className="font2">WEIGHT</p>
  <input
    className="input1"
    type="text"
```

```
      id="name"
      name="name"
      value={weight}
      onChange={(e) => {
        setWeight(e.target.value);
        console.log("weight:", weight);
      }}
    ></input>
  </div>
  <div className="maindiv6">
    <p className="font2">GENDER</p>
    <input
      className="input1"
      type="text"
      id="name"
      name="name"
      value={gender}
      onChange={(e) => {
        setGender(e.target.value);
        console.log("Gender:", gender);
      }}
    ></input>
  </div>
</div>
<div className="maindiv8">
  <button className="button1" onClick={handleClick}>
    START
  </button>
```

```
          </div>
        </div>
      </div>
    </div>
  </div>
 );
}

export default Interface3;
```

Appendix E: Code Segment on Interface 4

```
import React, { useState, useEffect } from "react";
import Header from "../components/Header";
import { useNavigate } from "react-router-dom";
import { projectFirestore } from "../components/firebase-config";
import { ref, onValue, push, set } from "firebase/database";

function Interface3() {
  const navigate = useNavigate();
  const SportRef = ref(projectFirestore, "sensor/Sport");
  const [name, setName] = useState();
  const [sport, setSport] = useState();
  const [position, setPosition] = useState();
  const [age, setAge] = useState();
  const [gender, setGender] = useState();
  const [weight, setWeight] = useState();
  const handleClick = async (e) => {
```

```
e.preventDefault();
if (!name || !sport || !position || !age || !gender || !weight) {
  alert("Please fill in all the fields.");
  return;
}
try {
  // Add a new sport to the Firestore collection
  const newSportRef = push(SportRef, {
    Name: name,
    Sport: sport,
    Position: position,
    Age: age,
    Gender: gender,
    Weight: weight,
  });
  const snapshot = await newSportRef; // Wait for the promise to resolve
  const newSportKey = snapshot.key; // Get the unique ID (key) generated by Firebase
  console.log(newSportKey);
  await set(ref(projectFirestore, `sensor/startStop`), {
    value: 1,
    sportId: newSportKey,
  });

  // Optionally, you can clear the form after submitting
  alert("Sport Mode Started Successfully!"); // Set the success message
  navigate("/interface4", {
    state: {
      sportId: newSportKey,
```

```
      },
    });

    // Optionally, you can clear the success message after a few seconds

    // Optionally, you can navigate to a different page or show a success message
  } catch (error) {
    // Handle the error (you can show an error message to the user)
    console.error("Error Starting data collection:", error.message);
  }
};

return (
  <div className="maindiv">
    <Header />
    <div className="maindiv1">
      <div className="maindiv2">
        <div>
          <div className="maindiv7">
            <div className="maindiv6">
              <p className="font2">NAME</p>
              <input
                className="input1"
                type="text"
                id="name"
                name="name"
                value={name}
                onChange={(e) => {
```

```
      setName(e.target.value);
      console.log("Name:", name);
    }}
  ></input>
</div>
<div className="maindiv6">
  <p className="font2">SPORT</p>
  <input
    className="input1"
    type="text"
    id="name"
    name="name"
    value={sport}
    onChange={(e) => {
      setSport(e.target.value);
      console.log("sport:", sport);
    }}
  ></input>
</div>
<div className="maindiv6">
  <p className="font2">POSITION</p>
  <input
    className="input1"
    type="text"
    id="name"
    name="name"
    value={position}
    onChange={(e) => {
```

```
      setPosition(e.target.value);
      console.log("position:", position);
    }}
  ></input>
</div>
<div className="maindiv6">
  <p className="font2">AGE</p>
  <input
    className="input1"
    type="text"
    id="name"
    name="name"
    value={age}
    onChange={(e) => {
      setAge(e.target.value);
      console.log("age:", age);
    }}
  ></input>
</div>
<div className="maindiv6">
  <p className="font2">WEIGHT</p>
  <input
    className="input1"
    type="text"
    id="name"
    name="name"
    value={weight}
    onChange={(e) => {
```

```
            setWeight(e.target.value);
            console.log("weight:", weight);
           }}
          ></input>
        </div>
        <div className="maindiv6">
          <p className="font2">GENDER</p>
          <input
            className="input1"
            type="text"
            id="name"
            name="name"
            value={gender}
            onChange={(e) => {
              setGender(e.target.value);
              console.log("Gender:", gender);
            }}
          ></input>
        </div>
      </div>
      <div className="maindiv8">
        <button className="button1" onClick={handleClick}>
          START
        </button>
      </div>
    </div>
  </div>
</div>
```

```
    </div>
  );
}

export default Interface3;
```

Appendix F: Code Segment on My Linechart

```
import React, { useState, useEffect } from "react";
import {
  LineChart,
  Line,
  XAxis,
  YAxis,
  CartesianGrid,
  Tooltip,
  Legend,
} from "recharts";

const MyLineChart = ({ sensorData }) => {
  return (
    <LineChart width={720} height={410} data={sensorData}>
      <XAxis dataKey="time" />
      <YAxis />
      <CartesianGrid stroke="#ccc" />
      <Tooltip />
      <Legend />
```

```
<Line
  type="monotone"
  dataKey="sensor1"
  stroke="#8884d8"
  name="Sensor 1"
/>
<Line
  type="monotone"
  dataKey="sensor2"
  stroke="#82ca9d"
  name="Sensor 2"
/>
<Line
  type="monotone"
  dataKey="sensor3"
  stroke="#ff0000"
  name="Sensor 3"
/>
<Line
  type="monotone"
  dataKey="sensor4"
  stroke="#00ff00"
  name="Sensor 4"
/>
<Line
  type="monotone"
  dataKey="sensor5"
  stroke="#0000ff"
```

```
        name="Sensor 5"
      />
      <Line
        type="monotone"
        dataKey="sensor6"
        stroke="#ffa500"
        name="Sensor 6"
      />
      <Line
        type="monotone"
        dataKey="sensor7"
        stroke="#800080"
        name="Sensor 7"
      />
      <Line
        type="monotone"
        dataKey="sensor8"
        stroke="#008080"
        name="Sensor 8"
      />
      <Line
        type="monotone"
        dataKey="sensor9"
        stroke="#ff00ff"
        name="Sensor 9"
      />
    </LineChart>
  );
```

```
};

export default MyLineChart;
```

Appendix G: Code Segment on Flows

```
[
    {
        "id": "692a8e81702f3975",
        "type": "tab",
        "label": "Flow 1",
        "disabled": false,
        "info": "",
        "env": []
    },
    {
        "id": "aab1d96254953d12",
        "type": "mqtt in",
        "z": "692a8e81702f3975",
        "name": "",
        "topic": "sensor/1",
        "qos": "1",
        "datatype": "auto-detect",
        "broker": "98c79337c7b7ce98",
        "nl": false,
        "rap": true,
        "rh": 0,
```

```
    "inputs": 0,
    "x": 720,
    "y": 240,
    "wires": [
        [
            "44842597bf7ed96f",
            "d8775f67242322fa",
            "b0e843d5ff119532"
        ]
    ]
},
{
    "id": "889790e1ba5d4f6f",
    "type": "mqtt in",
    "z": "692a8e81702f3975",
    "name": "",
    "topic": "sensor/2",
    "qos": "1",
    "datatype": "auto-detect",
    "broker": "98c79337c7b7ce98",
    "nl": false,
    "rap": true,
    "rh": 0,
    "inputs": 0,
    "x": 720,
    "y": 380,
    "wires": [
        [
```

```
            "8e046c75104a0bd8",
            "b190ac443d2845fb"
        ]
    ]
},
{
    "id": "9e6e8d2e4b69b59f",
    "type": "mqtt in",
    "z": "692a8e81702f3975",
    "name": "",
    "topic": "sensor/3",
    "qos": "1",
    "datatype": "auto-detect",
    "broker": "98c79337c7b7ce98",
    "nl": false,
    "rap": true,
    "rh": 0,
    "inputs": 0,
    "x": 720,
    "y": 540,
    "wires": [
        [
            "5fa8aa569af86621",
            "2298b9124627c5a6"
        ]
    ]
},
{
```

```
    "id": "2116886b01913b17",
    "type": "mqtt in",
    "z": "692a8e81702f3975",
    "name": "",
    "topic": "sensor/4",
    "qos": "1",
    "datatype": "auto-detect",
    "broker": "98c79337c7b7ce98",
    "nl": false,
    "rap": true,
    "rh": 0,
    "inputs": 0,
    "x": 720,
    "y": 680,
    "wires": [
        [
            "08b84a847dc33749",
            "d09ec1f8068f08a2"
        ]
    ]
},
{
    "id": "0a7bcc723bb248a6",
    "type": "mqtt in",
    "z": "692a8e81702f3975",
    "name": "",
    "topic": "sensor/5",
    "qos": "1",
```

```
    "datatype": "auto-detect",
    "broker": "98c79337c7b7ce98",
    "nl": false,
    "rap": true,
    "rh": 0,
    "inputs": 0,
    "x": 720,
    "y": 820,
    "wires": [
      [
        "a291f46cee41a279",
        "657e81797281d544"
      ]
    ]
  },
  {
    "id": "6b23f82cb9c7ea01",
    "type": "mqtt in",
    "z": "692a8e81702f3975",
    "name": "",
    "topic": "sensor/6",
    "qos": "1",
    "datatype": "auto-detect",
    "broker": "98c79337c7b7ce98",
    "nl": false,
    "rap": true,
    "rh": 0,
    "inputs": 0,
```

```
    "x": 720,
    "y": 960,
    "wires": [
        [
            "ecb5a3c2bd35ef1e",
            "3df104e45c4794da"
        ]
    ]
},
{
    "id": "4ee32472f1702910",
    "type": "mqtt in",
    "z": "692a8e81702f3975",
    "name": "",
    "topic": "sensor/7",
    "qos": "1",
    "datatype": "auto-detect",
    "broker": "98c79337c7b7ce98",
    "nl": false,
    "rap": true,
    "rh": 0,
    "inputs": 0,
    "x": 720,
    "y": 1120,
    "wires": [
        [
            "86145416f7a43dc9",
            "85e48e42cf03c950"
```

```
        ]
    ]
},
{
    "id": "cec20588985cf0a5",
    "type": "mqtt in",
    "z": "692a8e81702f3975",
    "name": "",
    "topic": "sensor/8",
    "qos": "1",
    "datatype": "auto-detect",
    "broker": "98c79337c7b7ce98",
    "nl": false,
    "rap": true,
    "rh": 0,
    "inputs": 0,
    "x": 720,
    "y": 1260,
    "wires": [
        [
            "836b7d8a035c08f0",
            "b6cf1c92dc728b23"
        ]
    ]
},
{
    "id": "768f352bb1e84132",
    "type": "mqtt in",
```

```
    "z": "692a8e81702f3975",
    "name": "",
    "topic": "sensor/9",
    "qos": "1",
    "datatype": "auto-detect",
    "broker": "98c79337c7b7ce98",
    "nl": false,
    "rap": true,
    "rh": 0,
    "inputs": 0,
    "x": 720,
    "y": 1400,
    "wires": [
      [
        "2ca8970d56179557",
        "3f67aecfaf7397bc"
      ]
    ]
  },
  {
    "id": "d8775f67242322fa",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
    "name": "Pic-sensor1",
    "firebaseconfig": "",
    "childpath": "pic-sensor/sensor1",
    "method": "set",
    "value": "msg.payload",
```

```
    "priority": "msg.priority",
    "x": 910,
    "y": 200,
    "wires": [
      []
    ]
  },
  {
    "id": "2298b9124627c5a6",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
    "name": "Pic-sensor3",
    "firebaseconfig": "",
    "childpath": "pic-sensor/sensor3",
    "method": "set",
    "value": "msg.payload",
    "priority": "msg.priority",
    "x": 910,
    "y": 500,
    "wires": [
      []
    ]
  },
  {
    "id": "b190ac443d2845fb",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
    "name": "Pic-sensor2",
```

```
    "firebaseconfig": "",
    "childpath": "pic-sensor/sensor2",
    "method": "set",
    "value": "msg.payload",
    "priority": "msg.priority",
    "x": 910,
    "y": 340,
    "wires": [
        []
    ]
},
{
    "id": "d09ec1f8068f08a2",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
    "name": "Pic-sensor4",
    "firebaseconfig": "",
    "childpath": "pic-sensor/sensor4",
    "method": "set",
    "value": "msg.payload",
    "priority": "msg.priority",
    "x": 910,
    "y": 640,
    "wires": [
        []
    ]
},
{
```

```
    "id": "657e81797281d544",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
    "name": "Pic-sensor5",
    "firebaseconfig": "",
    "childpath": "pic-sensor/sensor5",
    "method": "set",
    "value": "msg.payload",
    "priority": "msg.priority",
    "x": 910,
    "y": 780,
    "wires": [
        []
    ]
},
{
    "id": "3df104e45c4794da",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
    "name": "Pic-sensor6",
    "firebaseconfig": "",
    "childpath": "pic-sensor/sensor6",
    "method": "set",
    "value": "msg.payload",
    "priority": "msg.priority",
    "x": 910,
    "y": 920,
    "wires": [
```

```
        []
    ]
},
{
    "id": "85e48e42cf03c950",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
    "name": "Pic-sensor7",
    "firebaseconfig": "",
    "childpath": "pic-sensor/sensor7",
    "method": "set",
    "value": "msg.payload",
    "priority": "msg.priority",
    "x": 910,
    "y": 1080,
    "wires": [
        []
    ]
},
{
    "id": "b6cf1c92dc728b23",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
    "name": "Pic-sensor8",
    "firebaseconfig": "",
    "childpath": "pic-sensor/sensor8",
    "method": "set",
    "value": "msg.payload",
```

```
    "priority": "msg.priority",
    "x": 910,
    "y": 1220,
    "wires": [
        []
    ]
},
{
    "id": "3f67aecfaf7397bc",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
    "name": "Pic-sensor9",
    "firebaseconfig": "",
    "childpath": "pic-sensor/sensor9",
    "method": "set",
    "value": "msg.payload",
    "priority": "msg.priority",
    "x": 910,
    "y": 1360,
    "wires": [
        []
    ]
},
{
    "id": "5e2a0819ae2469f9",
    "type": "firebase.on",
    "z": "692a8e81702f3975",
    "name": "firebase_OnOff",
```

```
    "firebaseconfig": "",
    "childpath": "/sensor/startStop/value",
    "atStart": true,
    "eventType": "value",
    "queries": [],
    "x": 1160,
    "y": 80,
    "wires": [
      [
        "0d1ca950f5f21a22",
        "7eb46b2d5e45df09"
      ]
    ]
  },
  {
    "id": "0d1ca950f5f21a22",
    "type": "debug",
    "z": "692a8e81702f3975",
    "name": "debug 13",
    "active": false,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "payload",
    "targetType": "msg",
    "statusVal": "",
    "statusType": "auto",
    "x": 1420,
```

```
    "y": 120,
    "wires": []
  },
  {
    "id": "7eb46b2d5e45df09",
    "type": "function",
    "z": "692a8e81702f3975",
    "name": "function 1",
    "func": "if (msg.payload === 1) {\n    global.set(\"mainstatus\", 1);\n} else {\n global.set(\"mainstatus\", 0);\n}\n\n// Create a new message object with the updated mainstatus\nvar newMsg = {\n    mainstatus: global.get(\"mainstatus\") // Add mainstatus to the message\n};\n\nreturn newMsg;\n",
    "outputs": 1,
    "noerr": 0,
    "initialize": "",
    "finalize": "",
    "libs": [],
    "x": 1420,
    "y": 60,
    "wires": [
      [
        "5b896169885eacc2"
      ]
    ]
  },
  {
    "id": "44842597bf7ed96f",
    "type": "function",
    "z": "692a8e81702f3975",
```

```
        "name": "sensor1",
        "func": "var sensor01value =  msg.payload;\nmsg.sensor1 = sensor01value;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 900,
        "y": 240,
        "wires": [
          [
            "f5927da006f2acc5"
          ]
        ]
    },
    {
        "id": "8e046c75104a0bd8",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "sensor2",
        "func": "var sensor02value = msg.payload;\nmsg.sensor2 = sensor02value;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
```

```
        "x": 900,
        "y": 380,
        "wires": [
            [
                "9828c98405b7be8c"
            ]
        ]
    },
    {
        "id": "5fa8aa569af86621",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "sensor3",
        "func": "var sensor03value = msg.payload;\nmsg.sensor3 = sensor03value;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 900,
        "y": 540,
        "wires": [
            [
                "7e0e316e37704392"
            ]
        ]
    },
```

```
    {
        "id": "08b84a847dc33749",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "sensor4",
        "func": "var sensor04value = msg.payload;\nmsg.sensor4 = sensor04value;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 900,
        "y": 680,
        "wires": [
            [
                "44cb6307237beede"
            ]
        ]
    },
    {
        "id": "a291f46cee41a279",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "sensor5",
        "func": "var sensor05value = msg.payload;\nmsg.sensor5 = sensor05value;\nreturn msg;\n",
        "outputs": 1,
```

```
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 900,
        "y": 820,
        "wires": [
            [
                "839b7ff7ab9e0719"
            ]
        ]
    },
    {
        "id": "ecb5a3c2bd35ef1e",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "sensor6",
        "func": "var sensor06value = msg.payload;\nmsg.sensor6 = sensor06value;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 900,
        "y": 960,
        "wires": [
            [
```

```
            "6d7a9ca191feb608"
          ]
        ]
    },
    {
        "id": "86145416f7a43dc9",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "sensor7",
        "func": "var sensor07value = msg.payload;\nmsg.sensor7 = sensor07value;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 900,
        "y": 1120,
        "wires": [
          [
            "e6b89d40e15d08db"
          ]
        ]
    },
    {
        "id": "836b7d8a035c08f0",
        "type": "function",
        "z": "692a8e81702f3975",
```

```
        "name": "sensor8",
        "func": "var sensor08value = msg.payload;\nmsg.sensor8 = sensor08value;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 900,
        "y": 1260,
        "wires": [
            [
                "5f1c885c749ffce9"
            ]
        ]
    },
    {
        "id": "2ca8970d56179557",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "sensor9",
        "func": "var sensor09value = msg.payload;\nmsg.sensor9 = sensor09value;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
```

```
    "x": 900,
    "y": 1400,
    "wires": [
      [
        "7b6fb690a73975b3"
      ]
    ]
  },
  {
    "id": "5b896169885eacc2",
    "type": "debug",
    "z": "692a8e81702f3975",
    "name": "debug 21",
    "active": false,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "true",
    "targetType": "full",
    "statusVal": "",
    "statusType": "auto",
    "x": 1600,
    "y": 60,
    "wires": []
  },
  {
    "id": "f507a9be55c4ea7c",
    "type": "debug",
```

```
    "z": "692a8e81702f3975",
    "name": "debug 2",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "payload",
    "targetType": "msg",
    "statusVal": "",
    "statusType": "auto",
    "x": 1900,
    "y": 220,
    "wires": []
},
{
    "id": "eba3298b6d7d8e36",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
    "name": "firebase_sensor1",
    "firebaseconfig": "",
    "childpath": "msg.childpath",
    "method": "push",
    "value": "msg.payload",
    "priority": "msg.priority",
    "x": 1910,
    "y": 280,
    "wires": [
        []
```

```
        ]
    },
    {
        "id": "e9434ba2ff86fbac",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "sensor1Input",
        "func": "var sensor01 =global.get(\"sensor/1\")\nmsg.sensor01 = sensor01\n\nreturn msg;",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1510,
        "y": 240,
        "wires": [
            [
                "fe3f642f54c9c4af"
            ]
        ]
    },
    {
        "id": "fe3f642f54c9c4af",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "Format Time",
```

"func": "var childpath1 = global.get(\"childpathvariable\");\nvar sensorValue = msg.sensor01;\n\n// Create a new JavaScript Date object to get the current timestamp\nvar timestamp = Date.now();\n// Create a new payload object with the sensor value and timestamp\nvar newPayload = {\n value : sensorValue,\n timestamp: timestamp\n};\nmsg.payload = newPayload;\nmsg.childpath= \"sensor/Sport/\" +childpath1+\"/sensor1\";\n// Set the new payload object\n// Send the modified message to the next node (Firebase)\nreturn msg;",

"outputs": 1,

"noerr": 0,

"initialize": "",

"finalize": "",

"libs": [],

"x": 1690,

"y": 280,

"wires": [

[

"f507a9be55c4ea7c",

"eba3298b6d7d8e36"

]

]

},

{

"id": "1c09af56f642df8e",

"type": "firebase.on",

"z": "692a8e81702f3975",

"name": "firbaseChildPath",

"firebaseconfig": "",

"childpath": "/sensor/startStop/sportId",

"atStart": true,

```
        "eventType": "value",
        "queries": [],
        "x": 1140,
        "y": 280,
        "wires": [
            [
                "70bb114383feff84"
            ]
        ]
    },
    {
        "id": "f5927da006f2acc5",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "Main Function1",
        "func": "var onoffstatus = global.get(\"mainstatus\")\nvar sensor1 = msg.sensor1\n\nif (onoffstatus===1){\n    global.set(\"sensor/1\", sensor1)\n\n    var debugMsg = {\n onoffstatus: onoffstatus,\n        sensor1: sensor1,\n    };\n\n    // Output the debug message\n node.send({ payload: debugMsg });    \n\n}",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1140,
        "y": 240,
        "wires": [
            [
                "e9434ba2ff86fbac"
```

```
            ]
        ]
    },
    {
        "id": "70bb114383feff84",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "function 2",
        "func": "var childpathvalue = global.set(\"childpathvariable\",
msg.payload)\nmsg.childpath = childpathvalue;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1320,
        "y": 280,
        "wires": [
            [
                "fe3f642f54c9c4af"
            ]
        ]
    },
    {
        "id": "b0e843d5ff119532",
        "type": "debug",
        "z": "692a8e81702f3975",
        "name": "debug 30",
```

```
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "payload",
    "targetType": "msg",
    "statusVal": "",
    "statusType": "auto",
    "x": 900,
    "y": 140,
    "wires": []
},
{
    "id": "b3bb84a2cc616237",
    "type": "debug",
    "z": "692a8e81702f3975",
    "name": "debug 31",
    "active": false,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "payload",
    "targetType": "msg",
    "statusVal": "",
    "statusType": "auto",
    "x": 1880,
    "y": 380,
    "wires": []
```

```
    },
    {
        "id": "3b5bd0f80d69559c",
        "type": "firebase modify",
        "z": "692a8e81702f3975",
        "name": "firebase_sensor2",
        "firebaseconfig": "",
        "childpath": "msg.childpath",
        "method": "push",
        "value": "msg.payload",
        "priority": "msg.priority",
        "x": 1910,
        "y": 420,
        "wires": [
            []
        ]
    },
    {
        "id": "49a17b0e938647cc",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "sensor2Input",
        "func": "var sensor02 =global.get(\"sensor/2\")\nmsg.sensor02 = sensor02\n\nreturn
msg;",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
```

```
        "libs": [],
        "x": 1510,
        "y": 380,
        "wires": [
            [
                "30128a9a41fcd520"
            ]
        ]
    },
    {
        "id": "30128a9a41fcd520",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "Format Time",
        "func": "var childpath1 = global.get(\"childpathvariable\");\nvar sensorValue = msg.sensor02;\n\n// Create a new JavaScript Date object to get the current timestamp\nvar timestamp = Date.now();\n// Create a new payload object with the sensor value and timestamp\nvar newPayload = {\n    value : sensorValue,\n    timestamp: timestamp\n};\nmsg.payload = newPayload;\nmsg.childpath= \"sensor/Sport/\" +childpath1+\"/sensor2\";\n// Set the new payload object\n// Send the modified message to the next node (Firebase)\nreturn msg;",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1690,
        "y": 420,
        "wires": [
```

```
        [
            "b3bb84a2cc616237",
            "3b5bd0f80d69559c"
        ]
    ]
},
{
    "id": "c148857fd2161a63",
    "type": "firebase.on",
    "z": "692a8e81702f3975",
    "name": "firbaseChildPath",
    "firebaseconfig": "",
    "childpath": "/sensor/startStop/sportId",
    "atStart": true,
    "eventType": "value",
    "queries": [],
    "x": 1140,
    "y": 420,
    "wires": [
        [
            "9fe7c8077f455661"
        ]
    ]
},
{
    "id": "9828c98405b7be8c",
    "type": "function",
    "z": "692a8e81702f3975",
```

```
        "name": "Main Function2",
        "func": "var onoffstatus = global.get(\"mainstatus\")\nvar sensor2 = msg.sensor2\n\nif (onoffstatus===1){\n    global.set(\"sensor/2\", sensor2)\n\n    var debugMsg = {\n onoffstatus: onoffstatus,\n        sensor2: sensor2,\n    };\n\n    // Output the debug message\n node.send({ payload: debugMsg });    \n\n}",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1140,
        "y": 380,
        "wires": [
          [
            "49a17b0e938647cc"
          ]
        ]
    },
    {
        "id": "9fe7c8077f455661",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "function 8",
        "func": "var childpathvalue = global.set(\"childpathvariable\", msg.payload)\nmsg.childpath = childpathvalue;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
```

```
    "libs": [],
    "x": 1320,
    "y": 420,
    "wires": [
      [
        "30128a9a41fcd520"
      ]
    ]
  },
  {
    "id": "867cd46d4c1f3c67",
    "type": "debug",
    "z": "692a8e81702f3975",
    "name": "debug 32",
    "active": false,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "payload",
    "targetType": "msg",
    "statusVal": "",
    "statusType": "auto",
    "x": 1880,
    "y": 540,
    "wires": []
  },
  {
    "id": "7e48c4ed7abf2639",
```

```
        "type": "firebase modify",
        "z": "692a8e81702f3975",
        "name": "firebase_sensor3",
        "firebaseconfig": "",
        "childpath": "msg.childpath",
        "method": "push",
        "value": "msg.payload",
        "priority": "msg.priority",
        "x": 1910,
        "y": 580,
        "wires": [
            []
        ]
    },
    {
        "id": "8c44d42feb54c70b",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "sensor3Input",
        "func": "var sensor03 = global.get(\"sensor/3\")\nmsg.sensor03 = sensor03\n\nreturn
msg;",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1510,
        "y": 540,
```

```
    "wires": [
      [
        "7243fbb04788026e"
      ]
    ]
  },
  {
    "id": "7243fbb04788026e",
    "type": "function",
    "z": "692a8e81702f3975",
    "name": "Format Time",
    "func": "var childpath1 = global.get(\"childpathvariable\");\nvar sensorValue = msg.sensor03;\n\n// Create a new JavaScript Date object to get the current timestamp\nvar timestamp = Date.now();\n// Create a new payload object with the sensor value and timestamp\nvar newPayload = {\n    value: sensorValue,\n    timestamp: timestamp\n};\nmsg.payload = newPayload;\nmsg.childpath = \"sensor/Sport/\" + childpath1 + \"/sensor3\";\n// Set the new payload object\n// Send the modified message to the next node (Firebase)\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "initialize": "",
    "finalize": "",
    "libs": [],
    "x": 1690,
    "y": 580,
    "wires": [
      [
        "867cd46d4c1f3c67",
        "7e48c4ed7abf2639"
```

```
            ]
        ]
    },
    {
        "id": "b55ad40b9834e9c2",
        "type": "firebase.on",
        "z": "692a8e81702f3975",
        "name": "firbaseChildPath",
        "firebaseconfig": "",
        "childpath": "/sensor/startStop/sportId",
        "atStart": true,
        "eventType": "value",
        "queries": [],
        "x": 1140,
        "y": 580,
        "wires": [
            [
                "b6c08c061df00bfb"
            ]
        ]
    },
    {
        "id": "7e0e316e37704392",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "Main Function3",
        "func": "var onoffstatus = global.get(\"mainstatus\")\nvar sensor3 = msg.sensor3\n\nif (onoffstatus===1){\n    global.set(\"sensor/3\", sensor3)\n\n    var debugMsg = {\n
```

onoffstatus: onoffstatus,\n sensor3: sensor3,\n };\n\n // Output the debug message\n node.send({ payload: debugMsg }); \n\n}",

"outputs": 1,

"noerr": 0,

"initialize": "",

"finalize": "",

"libs": [],

"x": 1140,

"y": 540,

"wires": [

[

"8c44d42feb54c70b"

]

]

},

{

"id": "b6c08c061df00bfb",

"type": "function",

"z": "692a8e81702f3975",

"name": "function 9",

"func": "var childpathvalue = global.set(\"childpathvariable\", msg.payload)\nmsg.childpath = childpathvalue;\nreturn msg;\n",

"outputs": 1,

"noerr": 0,

"initialize": "",

"finalize": "",

"libs": [],

"x": 1320,

```
    "y": 580,
    "wires": [
      [
        "7243fbb04788026e"
      ]
    ]
  },
  {
    "id": "ba1fd42427e08b5e",
    "type": "debug",
    "z": "692a8e81702f3975",
    "name": "debug 33",
    "active": false,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "payload",
    "targetType": "msg",
    "statusVal": "",
    "statusType": "auto",
    "x": 1880,
    "y": 680,
    "wires": []
  },
  {
    "id": "b7694db51e7782a8",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
```

```
        "name": "firebase_sensor4",
        "firebaseconfig": "",
        "childpath": "msg.childpath",
        "method": "push",
        "value": "msg.payload",
        "priority": "msg.priority",
        "x": 1910,
        "y": 720,
        "wires": [
            []
        ]
    },
    {
        "id": "09aebf58d8097401",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "sensor4Input",
        "func": "var sensor04 = global.get(\"sensor/4\")\nmsg.sensor04 = sensor04\n\nreturn
msg;",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1510,
        "y": 680,
        "wires": [
            [
```

```
            "2a1e195ef1090b22"
          ]
        ]
      },
      {
        "id": "2a1e195ef1090b22",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "Format Time",
        "func": "var childpath1 = global.get(\"childpathvariable\");\nvar sensorValue = msg.sensor04;\n\n// Create a new JavaScript Date object to get the current timestamp\nvar timestamp = Date.now();\n// Create a new payload object with the sensor value and timestamp\nvar newPayload = {\n    value : sensorValue,\n    timestamp: timestamp\n};\nmsg.payload = newPayload;\nmsg.childpath= \"sensor/Sport/\" +childpath1+\"/sensor4\";\n// Set the new payload object\n// Send the modified message to the next node (Firebase)\nreturn msg;",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1690,
        "y": 720,
        "wires": [
          [
            "ba1fd42427e08b5e",
            "b7694db51e7782a8"
          ]
        ]
```

```
    },
    {
        "id": "7f340fa4eaf578e4",
        "type": "firebase.on",
        "z": "692a8e81702f3975",
        "name": "firbaseChildPath",
        "firebaseconfig": "",
        "childpath": "/sensor/startStop/sportId",
        "atStart": true,
        "eventType": "value",
        "queries": [],
        "x": 1140,
        "y": 720,
        "wires": [
            [
                "57806fe59847fcbc"
            ]
        ]
    },
    {
        "id": "44cb6307237beede",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "Main Function4",
        "func": "var onoffstatus = global.get(\"mainstatus\")\nvar sensor4 = msg.sensor4\n\nif (onoffstatus===1){\n    global.set(\"sensor/4\", sensor4)\n\n    var debugMsg = {\n onoffstatus: onoffstatus,\n        sensor4: sensor4,\n    };\n\n    // Output the debug message\n node.send({ payload: debugMsg });    \n\n}",
        "outputs": 1,
```

```
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1140,
        "y": 680,
        "wires": [
            [
                "09aebf58d8097401"
            ]
        ]
    },
    {
        "id": "57806fe59847fcbc",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "function 10",
        "func": "var childpathvalue = global.set(\"childpathvariable\",
msg.payload)\nmsg.childpath = childpathvalue;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1320,
        "y": 720,
        "wires": [
            [
```

```
            "2a1e195ef1090b22"
        ]
    ]
},
{
    "id": "8a7fe83998fd65ef",
    "type": "debug",
    "z": "692a8e81702f3975",
    "name": "debug 34",
    "active": false,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "payload",
    "targetType": "msg",
    "statusVal": "",
    "statusType": "auto",
    "x": 1880,
    "y": 820,
    "wires": []
},
{
    "id": "54923a9ccda3f08c",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
    "name": "firebase_sensor5",
    "firebaseconfig": "",
    "childpath": "msg.childpath",
```

```
        "method": "push",
        "value": "msg.payload",
        "priority": "msg.priority",
        "x": 1910,
        "y": 860,
        "wires": [
            []
        ]
    },
    {
        "id": "e2475308ede5eba5",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "sensor5Input",
        "func": "var sensor05 =global.get(\"sensor/5\")\nmsg.sensor05 = sensor05\n\nreturn msg;",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1510,
        "y": 820,
        "wires": [
            [
                "14829472da39f8de"
            ]
        ]
```

```
},
{
    "id": "14829472da39f8de",
    "type": "function",
    "z": "692a8e81702f3975",
    "name": "Format Time",
    "func": "var childpath1 = global.get(\"childpathvariable\");\nvar sensorValue = msg.sensor05;\n\n// Create a new JavaScript Date object to get the current timestamp\nvar timestamp = Date.now();\n// Create a new payload object with the sensor value and timestamp\nvar newPayload = {\n    value : sensorValue,\n    timestamp: timestamp\n};\nmsg.payload = newPayload;\nmsg.childpath= \"sensor/Sport/\" +childpath1+\"/sensor5\";\n// Set the new payload object\n// Send the modified message to the next node (Firebase)\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "initialize": "",
    "finalize": "",
    "libs": [],
    "x": 1690,
    "y": 860,
    "wires": [
        [
            "8a7fe83998fd65ef",
            "54923a9ccda3f08c"
        ]
    ]
},
{
    "id": "01d010ee86aec405",
```

```
        "type": "firebase.on",
        "z": "692a8e81702f3975",
        "name": "firbaseChildPath",
        "firebaseconfig": "",
        "childpath": "/sensor/startStop/sportId",
        "atStart": true,
        "eventType": "value",
        "queries": [],
        "x": 1140,
        "y": 860,
        "wires": [
          [
            "baed65b3c4b399fc"
          ]
        ]
      },
      {
        "id": "839b7ff7ab9e0719",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "Main Function5",
        "func": "var onoffstatus = global.get(\"mainstatus\")\nvar sensor5 = msg.sensor5\n\nif (onoffstatus===1){\n    global.set(\"sensor/5\", sensor5)\n\n    var debugMsg = {\n onoffstatus: onoffstatus,\n        sensor5: sensor5,\n    };\n\n    // Output the debug message\n node.send({ payload: debugMsg });    \n\n}",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
```

```
        "libs": [],
        "x": 1140,
        "y": 820,
        "wires": [
            [
                "e2475308ede5eba5"
            ]
        ]
    },
    {
        "id": "baed65b3c4b399fc",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "function 11",
        "func": "var childpathvalue = global.set(\"childpathvariable\",
msg.payload)\nmsg.childpath = childpathvalue;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1320,
        "y": 860,
        "wires": [
            [
                "14829472da39f8de"
            ]
        ]
```

```
},
{
    "id": "4e8010db6be0e78b",
    "type": "debug",
    "z": "692a8e81702f3975",
    "name": "debug 35",
    "active": false,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "payload",
    "targetType": "msg",
    "statusVal": "",
    "statusType": "auto",
    "x": 1880,
    "y": 960,
    "wires": []
},
{
    "id": "83c1389c4f91e213",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
    "name": "firebase_sensor6",
    "firebaseconfig": "",
    "childpath": "msg.childpath",
    "method": "push",
    "value": "msg.payload",
    "priority": "msg.priority",
```

```
        "x": 1910,
        "y": 1000,
        "wires": [
            []
        ]
    },
    {
        "id": "a8d65efd020731a9",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "sensor6Input",
        "func": "var sensor06 =global.get(\"sensor/6\")\nmsg.sensor06 = sensor06\n\nreturn msg;",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1510,
        "y": 960,
        "wires": [
            [
                "995a113b08f9d6ea"
            ]
        ]
    },
    {
        "id": "995a113b08f9d6ea",
```

```
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "Format Time",
        "func": "var childpath1 = global.get(\"childpathvariable\");\nvar sensorValue = msg.sensor06;\n\n// Create a new JavaScript Date object to get the current timestamp\nvar timestamp = Date.now();\n// Create a new payload object with the sensor value and timestamp\nvar newPayload = {\n    value : sensorValue,\n    timestamp: timestamp\n};\nmsg.payload = newPayload;\nmsg.childpath= \"sensor/Sport/\" +childpath1+\"/sensor6\";\n// Set the new payload object\n// Send the modified message to the next node (Firebase)\nreturn msg;",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1690,
        "y": 1000,
        "wires": [
            [
                "4e8010db6be0e78b",
                "83c1389c4f91e213"
            ]
        ]
    },
    {
        "id": "ceb51360e04de15e",
        "type": "firebase.on",
        "z": "692a8e81702f3975",
        "name": "firbaseChildPath",
```

```
        "firebaseconfig": "",
        "childpath": "/sensor/startStop/sportId",
        "atStart": true,
        "eventType": "value",
        "queries": [],
        "x": 1140,
        "y": 1000,
        "wires": [
          [
            "e2c19069da477211"
          ]
        ]
      },
      {
        "id": "6d7a9ca191feb608",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "Main Function6",
        "func": "var onoffstatus = global.get(\"mainstatus\")\nvar sensor6 = msg.sensor6\n\nif (onoffstatus===1){\n    global.set(\"sensor/6\", sensor6)\n\n    var debugMsg = {\n onoffstatus: onoffstatus,\n        sensor6: sensor6,\n    };\n\n    // Output the debug message\n node.send({ payload: debugMsg });    \n\n}",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1140,
        "y": 960,
```

```
        "wires": [
            [
                "a8d65efd020731a9"
            ]
        ]
    },
    {
        "id": "e2c19069da477211",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "function 12",
        "func": "var childpathvalue = global.set(\"childpathvariable\",
msg.payload)\nmsg.childpath = childpathvalue;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1320,
        "y": 1000,
        "wires": [
            [
                "995a113b08f9d6ea"
            ]
        ]
    },
    {
        "id": "7be7afa5bf887579",
```

```
    "type": "debug",
    "z": "692a8e81702f3975",
    "name": "debug 36",
    "active": false,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "payload",
    "targetType": "msg",
    "statusVal": "",
    "statusType": "auto",
    "x": 1880,
    "y": 1120,
    "wires": []
},
{
    "id": "75535e434fabd345",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
    "name": "firebase_sensor7",
    "firebaseconfig": "",
    "childpath": "msg.childpath",
    "method": "push",
    "value": "msg.payload",
    "priority": "msg.priority",
    "x": 1910,
    "y": 1160,
    "wires": [
```

```
            []
        ]
    },
    {
        "id": "9b735333987668a4",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "sensor7Input",
        "func": "var sensor07 = global.get(\"sensor/7\")\nmsg.sensor07 = sensor07\n\nreturn
msg;",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1510,
        "y": 1120,
        "wires": [
            [
                "1f3d24aeb78db6db"
            ]
        ]
    },
    {
        "id": "1f3d24aeb78db6db",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "Format Time",
```

"func": "var childpath1 = global.get(\"childpathvariable\");\nvar sensorValue = msg.sensor07;\n\n// Create a new JavaScript Date object to get the current timestamp\nvar timestamp = Date.now();\n// Create a new payload object with the sensor value and timestamp\nvar newPayload = {\n value: sensorValue,\n timestamp: timestamp\n};\nmsg.payload = newPayload;\nmsg.childpath = \"sensor/Sport/\" + childpath1 + \"/sensor7\";\n// Set the new payload object\n// Send the modified message to the next node (Firebase)\nreturn msg;",

"outputs": 1,

"noerr": 0,

"initialize": "",

"finalize": "",

"libs": [],

"x": 1690,

"y": 1160,

"wires": [

[

"7be7afa5bf887579",

"75535e434fabd345"

]

]

},

{

"id": "a5b509afa5ab801e",

"type": "firebase.on",

"z": "692a8e81702f3975",

"name": "firbaseChildPath",

"firebaseconfig": "",

"childpath": "/sensor/startStop/sportId",

"atStart": true,

```
        "eventType": "value",
        "queries": [],
        "x": 1140,
        "y": 1160,
        "wires": [
            [
                "11dd2e84fc8ec679"
            ]
        ]
    },
    {
        "id": "e6b89d40e15d08db",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "Main Function7",
        "func": "var onoffstatus = global.get(\"mainstatus\")\nvar sensor7 = msg.sensor7\n\nif (onoffstatus===1){\n    global.set(\"sensor/7\", sensor7)\n\n    var debugMsg = {\n onoffstatus: onoffstatus,\n        sensor7: sensor7,\n    };\n\n    // Output the debug message\n node.send({ payload: debugMsg });    \n\n}",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1140,
        "y": 1120,
        "wires": [
            [
                "9b735333987668a4"
```

```
            ]
        ]
    },
    {
        "id": "11dd2e84fc8ec679",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "function 13",
        "func": "var childpathvalue = global.set(\"childpathvariable\",
msg.payload)\nmsg.childpath = childpathvalue;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1320,
        "y": 1160,
        "wires": [
            [
                "1f3d24aeb78db6db"
            ]
        ]
    },
    {
        "id": "936c9932706065e5",
        "type": "debug",
        "z": "692a8e81702f3975",
        "name": "debug 37",
```

```
    "active": false,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "payload",
    "targetType": "msg",
    "statusVal": "",
    "statusType": "auto",
    "x": 1880,
    "y": 1260,
    "wires": []
},
{
    "id": "5e1cbb34387b870d",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
    "name": "firebase_sensor8",
    "firebaseconfig": "",
    "childpath": "msg.childpath",
    "method": "push",
    "value": "msg.payload",
    "priority": "msg.priority",
    "x": 1910,
    "y": 1300,
    "wires": [
        []
    ]
},
```

```
    {
        "id": "652c50da40834076",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "sensor4Input",
        "func": "var sensor08 = global.get(\"sensor/8\")\nmsg.sensor08 = sensor08\n\nreturn msg;",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1510,
        "y": 1260,
        "wires": [
            [
                "25696aece9e21ea6"
            ]
        ]
    },
    {
        "id": "25696aece9e21ea6",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "Format Time",
        "func": "var childpath1 = global.get(\"childpathvariable\");\nvar sensorValue = msg.sensor08;\n\n// Create a new JavaScript Date object to get the current timestamp\nvar timestamp = Date.now();\n// Create a new payload object with the sensor value and timestamp\nvar newPayload = {\n    value : sensorValue,\n    timestamp:
```

timestamp\n};\nmsg.payload = newPayload;\nmsg.childpath= \"sensor/Sport/\" +childpath1+\"/sensor8\";\n// Set the new payload object\n// Send the modified message to the next node (Firebase)\nreturn msg;",

"outputs": 1,

"noerr": 0,

"initialize": "",

"finalize": "",

"libs": [],

"x": 1690,

"y": 1300,

"wires": [

[

"936c9932706065e5",

"5e1cbb34387b870d"

]

]

},

{

"id": "842b7974e6e58e17",

"type": "firebase.on",

"z": "692a8e81702f3975",

"name": "firbaseChildPath",

"firebaseconfig": "",

"childpath": "/sensor/startStop/sportId",

"atStart": true,

"eventType": "value",

"queries": [],

"x": 1140,

```
    "y": 1300,
    "wires": [
      [
        "bb9b071122f74c48"
      ]
    ]
  },
  {
    "id": "5f1c885c749ffce9",
    "type": "function",
    "z": "692a8e81702f3975",
    "name": "Main Function8",
    "func": "var onoffstatus = global.get(\"mainstatus\")\nvar sensor8 = msg.sensor8\n\nif (onoffstatus===1){\n    global.set(\"sensor/8\", sensor8)\n\n    var debugMsg = {\n onoffstatus: onoffstatus,\n        sensor8: sensor8,\n    };\n\n    // Output the debug message\n node.send({ payload: debugMsg });    \n\n}",
    "outputs": 1,
    "noerr": 0,
    "initialize": "",
    "finalize": "",
    "libs": [],
    "x": 1140,
    "y": 1260,
    "wires": [
      [
        "652c50da40834076"
      ]
    ]
  },
```

```
    {
        "id": "bb9b071122f74c48",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "function 14",
        "func": "var childpathvalue = global.set(\"childpathvariable\",
msg.payload)\nmsg.childpath = childpathvalue;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1320,
        "y": 1300,
        "wires": [
            [
                "25696aece9e21ea6"
            ]
        ]
    },
    {
        "id": "78196a4af312f9cc",
        "type": "debug",
        "z": "692a8e81702f3975",
        "name": "debug 38",
        "active": false,
        "tosidebar": true,
        "console": false,
```

```
    "tostatus": false,
    "complete": "payload",
    "targetType": "msg",
    "statusVal": "",
    "statusType": "auto",
    "x": 1880,
    "y": 1400,
    "wires": []
},
{
    "id": "a9db39277cb3e373",
    "type": "firebase modify",
    "z": "692a8e81702f3975",
    "name": "firebase_sensor9",
    "firebaseconfig": "",
    "childpath": "msg.childpath",
    "method": "push",
    "value": "msg.payload",
    "priority": "msg.priority",
    "x": 1910,
    "y": 1440,
    "wires": [
        []
    ]
},
{
    "id": "0f1be2d9461b7441",
    "type": "function",
```

```
        "z": "692a8e81702f3975",
        "name": "sensor9Input",
        "func": "var sensor09 = global.get(\"sensor/9\")\nmsg.sensor09 = sensor09\n\nreturn msg;",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1510,
        "y": 1400,
        "wires": [
            [
                "d482284a1c21c288"
            ]
        ]
    },
    {
        "id": "d482284a1c21c288",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "Format Time",
        "func": "var childpath1 = global.get(\"childpathvariable\");\nvar sensorValue = msg.sensor09;\n\n// Create a new JavaScript Date object to get the current timestamp\nvar timestamp = Date.now();\n// Create a new payload object with the sensor value and timestamp\nvar newPayload = {\n    value : sensorValue,\n    timestamp: timestamp\n};\nmsg.payload = newPayload;\nmsg.childpath= \"sensor/Sport/\" +childpath1+\"/sensor9\";\n// Set the new payload object\n// Send the modified message to the next node (Firebase)\nreturn msg;",
        "outputs": 1,
```

```
    "noerr": 0,
    "initialize": "",
    "finalize": "",
    "libs": [],
    "x": 1690,
    "y": 1440,
    "wires": [
      [
        "78196a4af312f9cc",
        "a9db39277cb3e373"
      ]
    ]
  },
  {
    "id": "5f182796359d27d3",
    "type": "firebase.on",
    "z": "692a8e81702f3975",
    "name": "firbaseChildPath",
    "firebaseconfig": "",
    "childpath": "/sensor/startStop/sportId",
    "atStart": true,
    "eventType": "value",
    "queries": [],
    "x": 1140,
    "y": 1440,
    "wires": [
      [
        "e639426370c2657a"
```

```
            ]
        ]
    },
    {
        "id": "7b6fb690a73975b3",
        "type": "function",
        "z": "692a8e81702f3975",
        "name": "Main Function9",
        "func": "var onoffstatus = global.get(\"mainstatus\")\nvar sensor9 = msg.sensor9\n\nif (onoffstatus===1){\n    global.set(\"sensor/9\", sensor9)\n\n    var debugMsg = {\n onoffstatus: onoffstatus,\n        sensor9: sensor9,\n    };\n\n    // Output the debug message\n node.send({ payload: debugMsg });    \n\n}",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1140,
        "y": 1400,
        "wires": [
            [
                "0f1be2d9461b7441"
            ]
        ]
    },
    {
        "id": "e639426370c2657a",
        "type": "function",
        "z": "692a8e81702f3975",
```

```
        "name": "function 15",
        "func": "var childpathvalue = global.set(\"childpathvariable\",
msg.payload)\nmsg.childpath = childpathvalue;\nreturn msg;\n",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 1320,
        "y": 1440,
        "wires": [
          [
            "d482284a1c21c288"
          ]
        ]
    },
    {
        "id": "98c79337c7b7ce98",
        "type": "mqtt-broker",
        "name": "",
        "broker": "broker.hivemq.com",
        "port": "1883",
        "clientid": "",
        "autoConnect": true,
        "usetls": false,
        "protocolVersion": "4",
        "keepalive": "60",
        "cleansession": true,
```

```
        "birthTopic": "",
        "birthQos": "0",
        "birthPayload": "",
        "birthMsg": {},
        "closeTopic": "",
        "closeQos": "0",
        "closePayload": "",
        "closeMsg": {},
        "willTopic": "",
        "willQos": "0",
        "willPayload": "",
        "willMsg": {},
        "userProps": "",
        "sessionExpiry": ""
    }
]
```