

SMART WEATHER MONITORING SYSTEM

1.INTRODUCTION:

*****OVERVIEW:

The Project is about "Smart Weather Monitoring System Using IoT".It comes under the category of "Internet Of Things".The main Objective of this project is to setup a monitoring system,with the help of **IoT Online Simulator**.

*****PURPOSE:

The Above Project is used to create a Smart Weather Monitoring System .It helps people with efficient information with respect to Temperature,humidity and ObjTemperature at any time and any where when you need it.

2.LITERATURE-SURVEY:

*****EXISTING-PROBLEM:

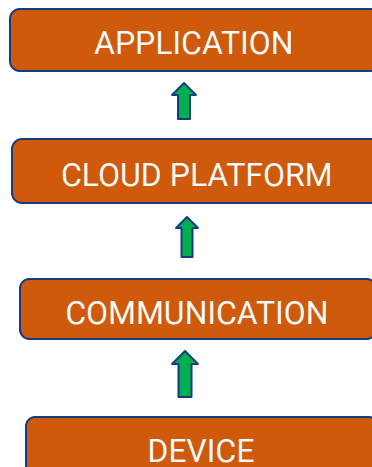
A cost effective solution for more effective "Smart Weather Monitoring System".

*****PROPOSED-SOLUTION:

It is built using IOT Open Hardware Platforms.

3.THEORITICAL-ANALYSIS:

*******BLOCK-DIAGRAM:**These are the following steps involved in IOT App Developing.



*******HARDWARE/SOFTWARE-DESIGNING:**

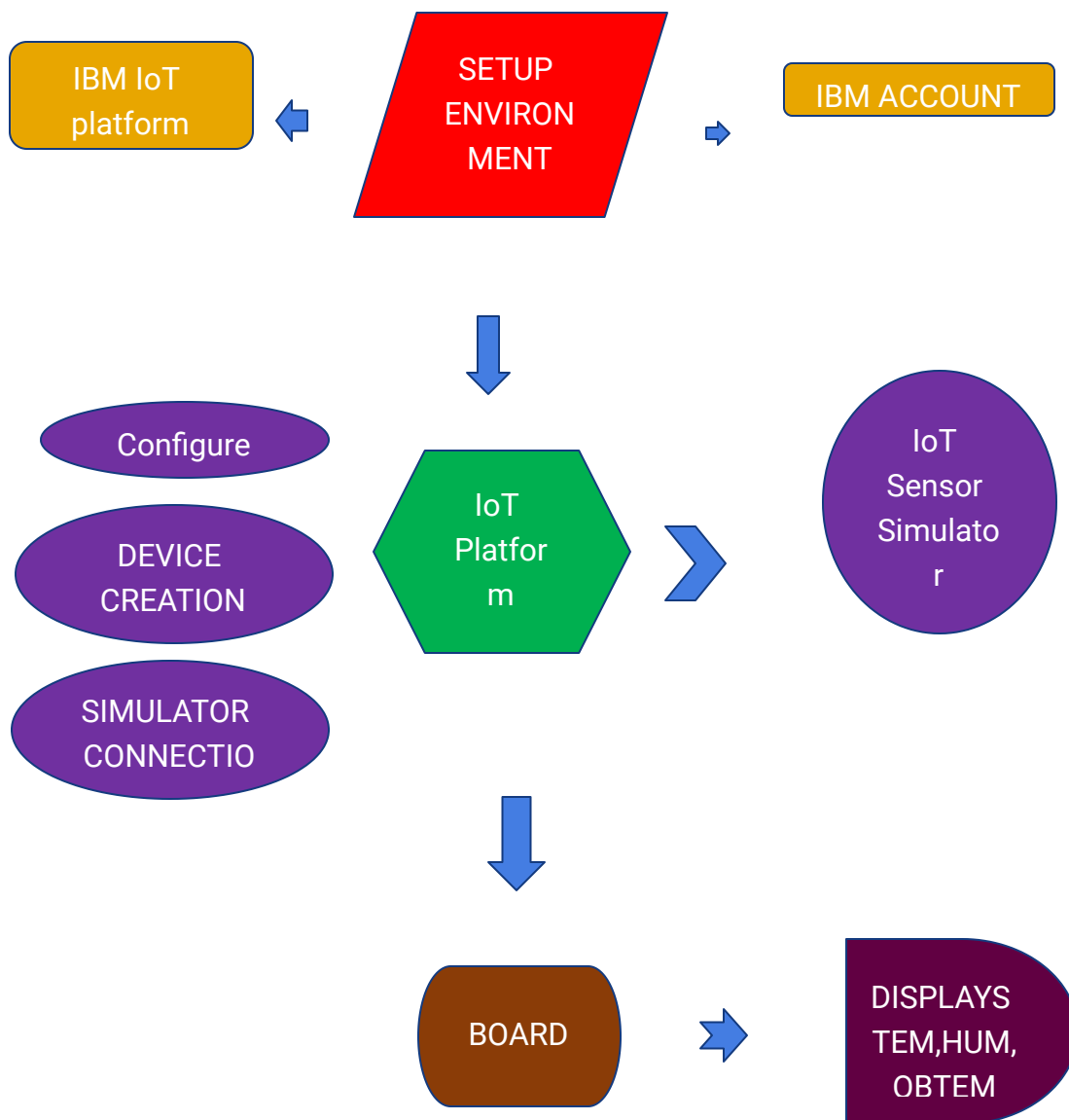
----->IBM Cloud platform

----->IBM Watson IoT Platform

----->IoT Sensor Simulator

4.EXPERIMENTAL-INVESTIGATIONS: Investigations are performed on "Smart Weather Monitoring System" and performance is satisfied.


5.FLOWCHART:









6.RESULT:

----->Creating accounts in IBM Cloud Platform.

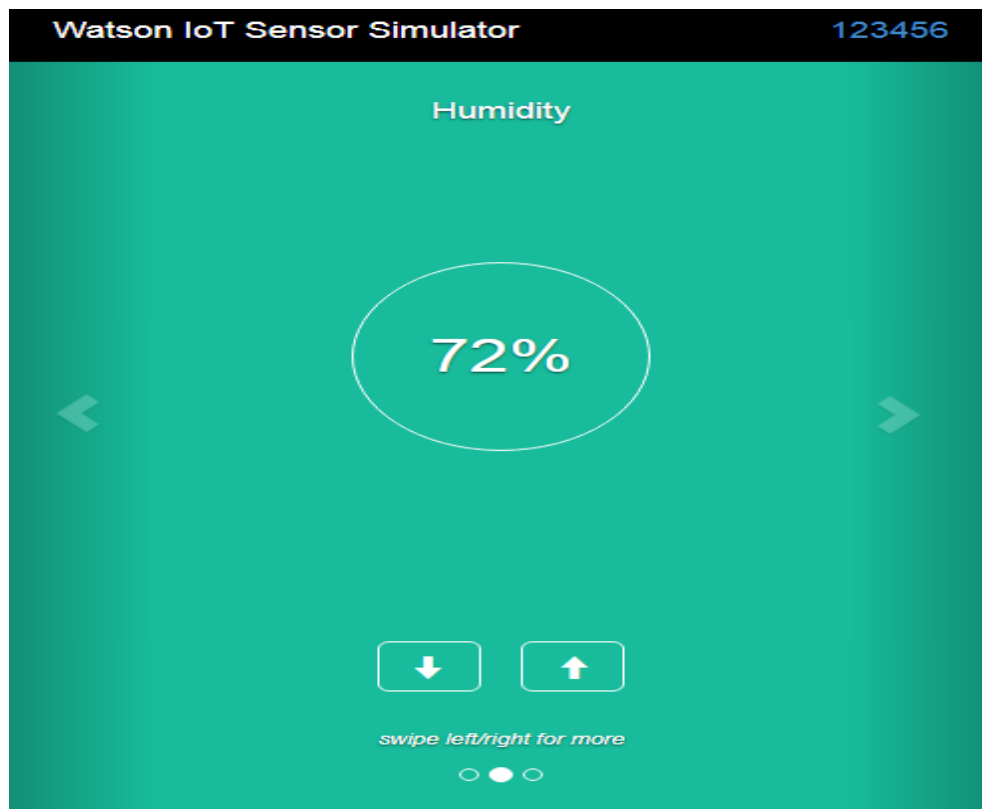
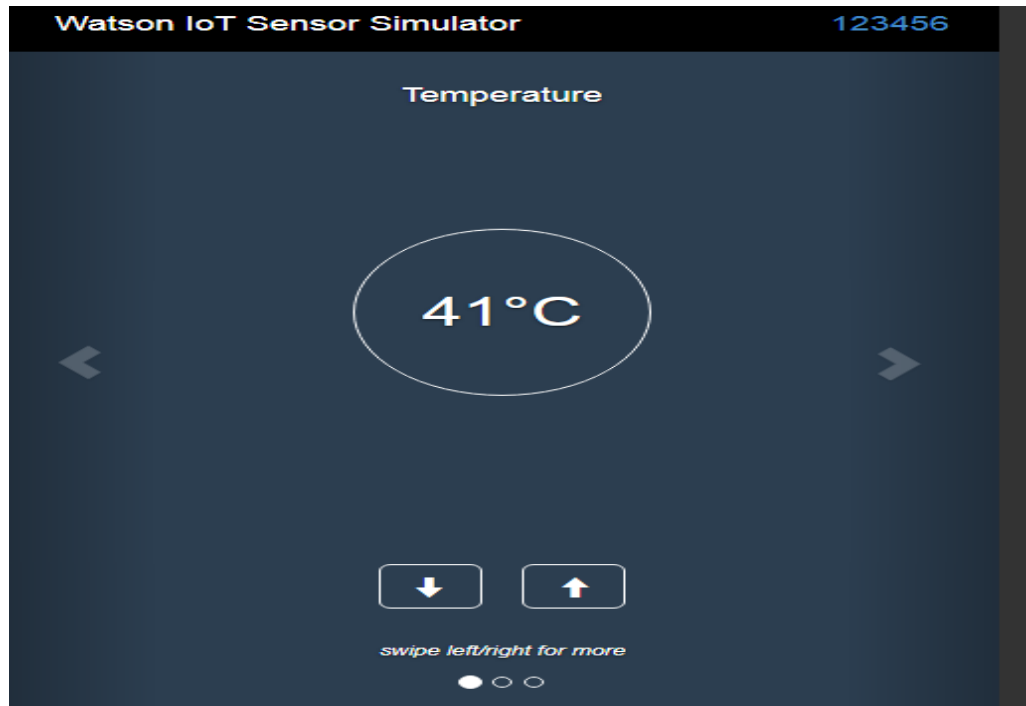
----->Creating a IBM IoT Platform and a Device ,which manages the flow of values.

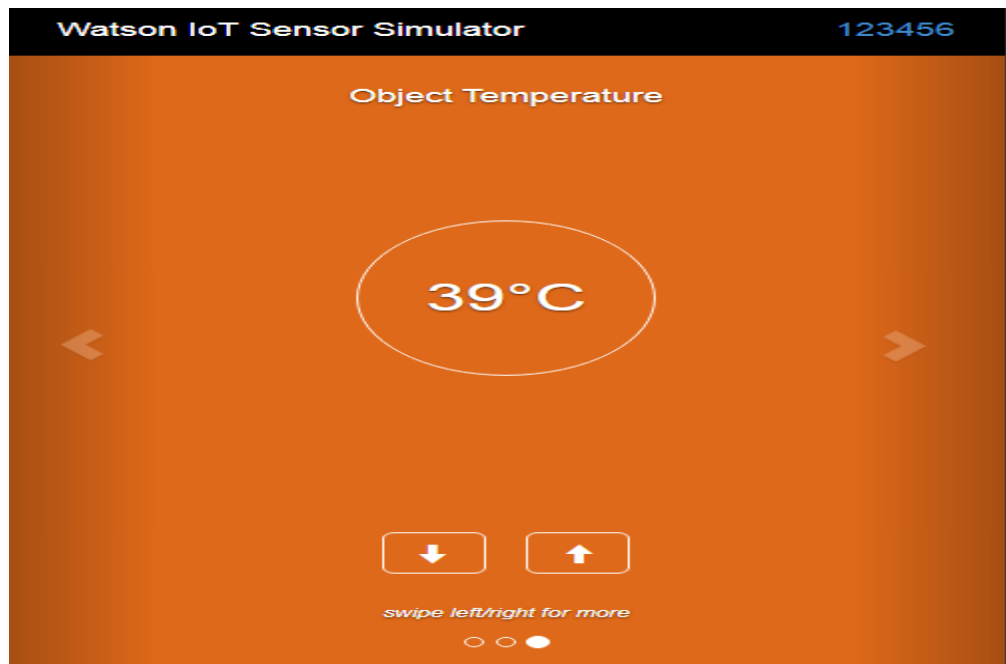
Device Simulator 

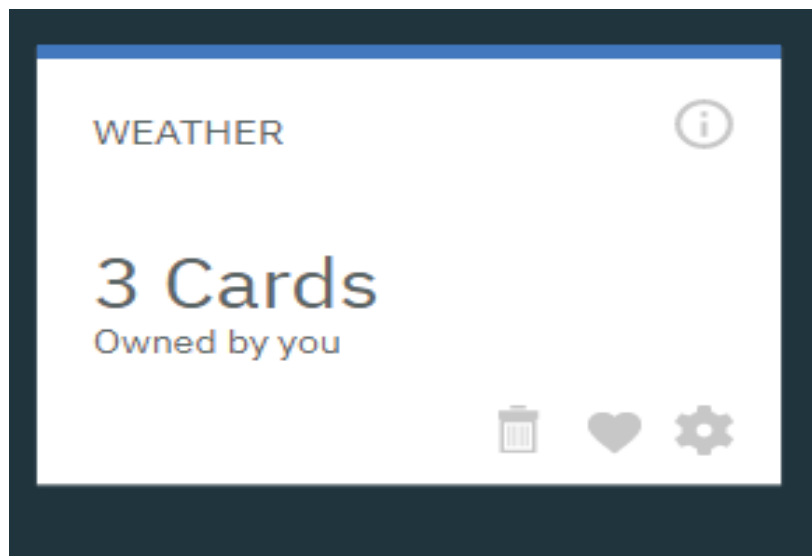
	Device ID	Status	Device Type	Class ID	Date Added	
▼ 	123456	 Connected	raspberrypi	Device	Jul 16, 2020 7:48 PM	→ ...
Identity Device Information <u>Recent Events</u> State Logs 						
The recent events listed show the live stream of data that is coming and going from this device.						
Event	Value	Format	Last Received			
iotsensor	<pre>{"d":{"name":"123456","temperature":41,"humi...</pre>	json	a few seconds ago			
iotsensor	<pre>{"d":{"name":"123456","temperature":41,"humi...</pre>	json	a few seconds ago			
iotsensor	<pre>{"d":{"name":"123456","temperature":41,"humi...</pre>	json	a few seconds ago			

----->Connecting the IoT Online Simulator to the Device created in IOT platform.

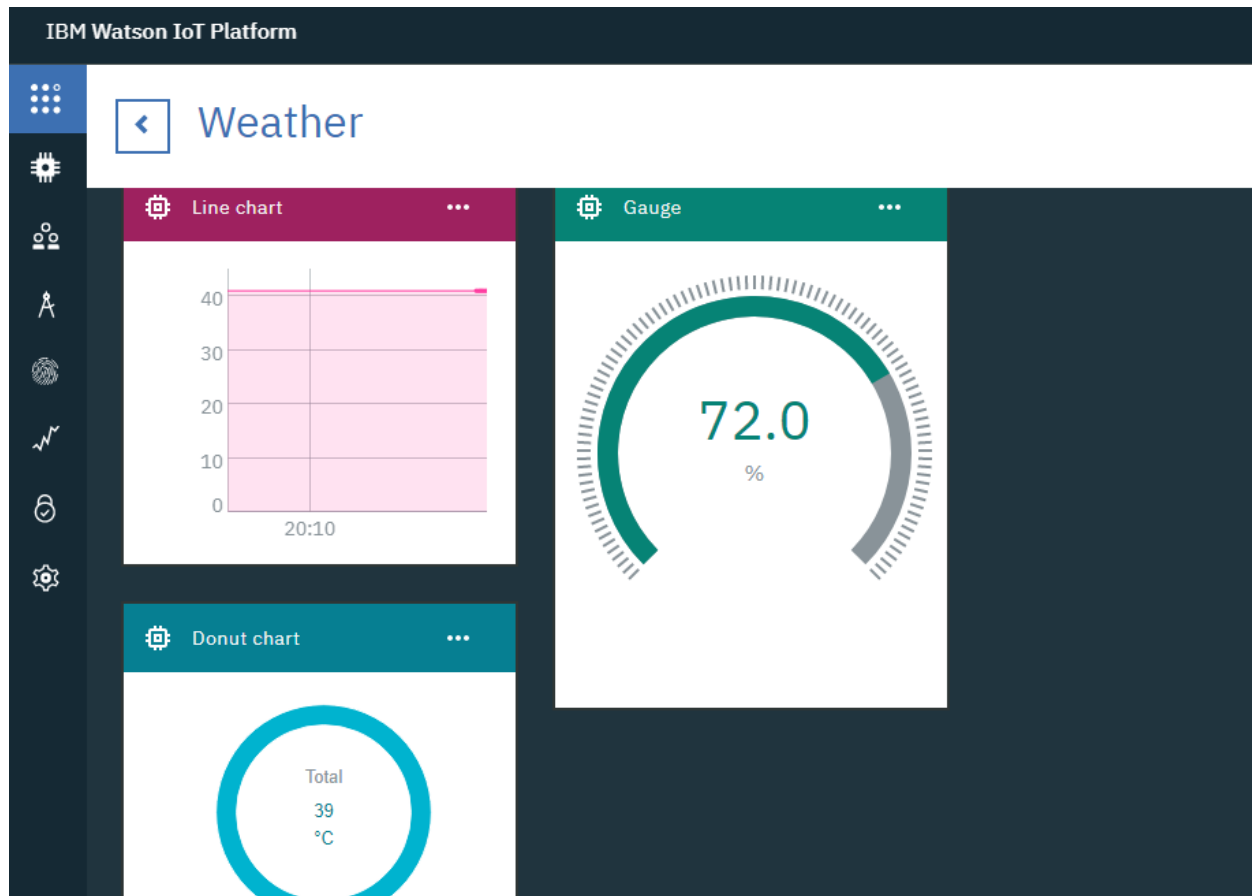




----->Creating a Board ,which displays Temperature,Humidity and ObjTemperature.



----->Creating Cards for Temperature, Humidity and ObjTemperature separately with different formats.



7.ADVANTAGES &DISADVANTAGES:

*****ADVANTAGES:

- >High Reliability
- >Safety Enhancement
- >Cost Reduction
- >Improved Customer Engagement

*****DISADVANTAGES:

- >Sometimes Slow due to Internet Connectivity
- >Make Sure that your Simulator is always connected to the IoT platform Device.

8.APPLICATIONS:

- >Very Useful for Farmers ,in deciding which Crop has to be Yilded.
- >Used in weather Forecasting Sector .
- >Used to know the fertility of the soil.
- >Used in Open API.

9.CONCLUSION:

- >This system can be accessible anytime for effective customer engagement.
- >This project provides a flexible attribute for customer satisfaction with "Smart Weather Monitoring System".

10.FUTURE_SCOPE:

- >It can be used in Future Alerts.
- >It can be used in Real Time Data Collection.
- >It can be used in Scheduling Events.
- >It can be used in GeoLocation Data.

11.BIBILOGRAPHY:

GITHUB ACCOUNT(UPLOADED ScreenShots)

=====

=====

=====

=====