

Smart monitoring system for infant incubator

Introduction :

In the recent years use of wireless technology increasing for the need of upholding sectors.. In these recent years got groped the most industrial area specially automation and control biomedical is one of the trend to provide recent health care....Not only in the hospitals but also the personal health care system are opened by hot technology....so having a smart system various parameters are observed that consume power and incurred cost efficiency.By using It one can monitor the baby details regulars and can alert the person to react and can send sms soon...

Purpose:

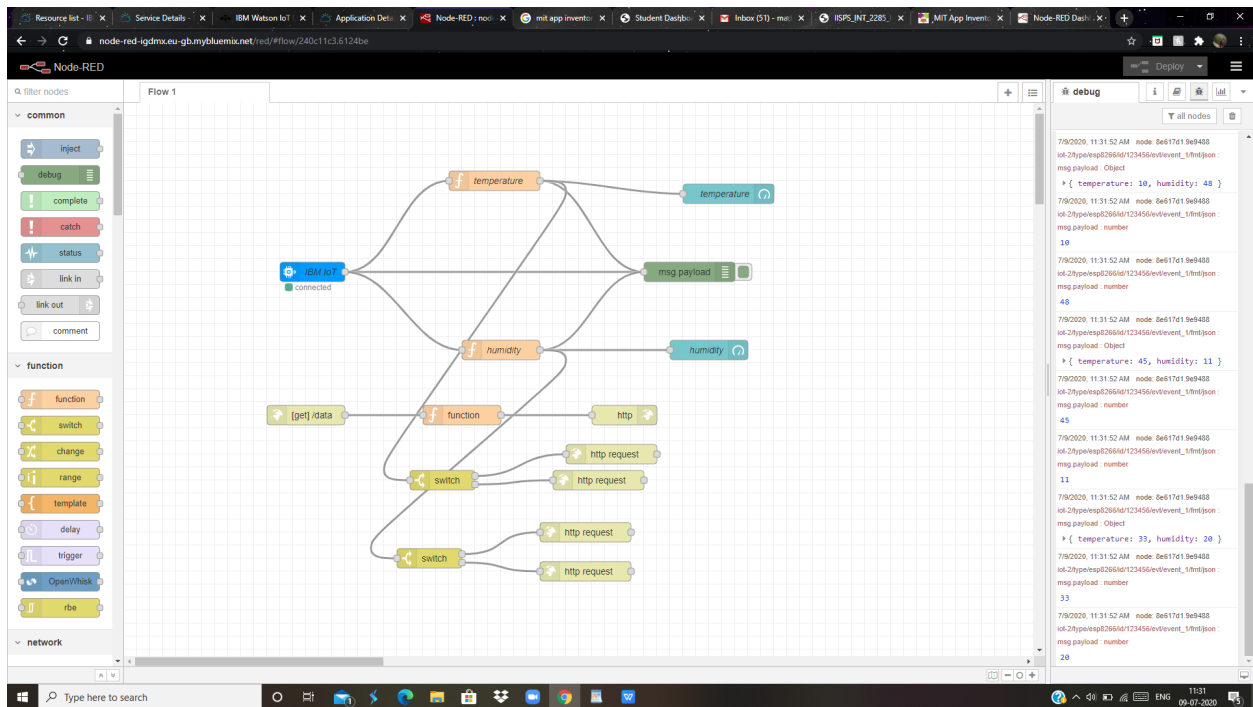
By this project one can able to see the present healthcare of the baby at anywhere and anytime.By this we can monitor the baby(infant) health details and take care of patient

Existing system:

In a hospital, either the nurse or the doctor has to move physically from one infant to another for health check,which may not be possible to monitor their conditions continuously. Thus, any critical situations cannot be found easily unless the nurse or doctor checks the infantile at that moment. This may be a strain for the doctors who have to take care of lot number of people in the hospital. Also, when the temperature and humidity levels are too high or low the infant doesnt take breath...that why we proposed a system for infant health to give alerts near by people

Proposed system:

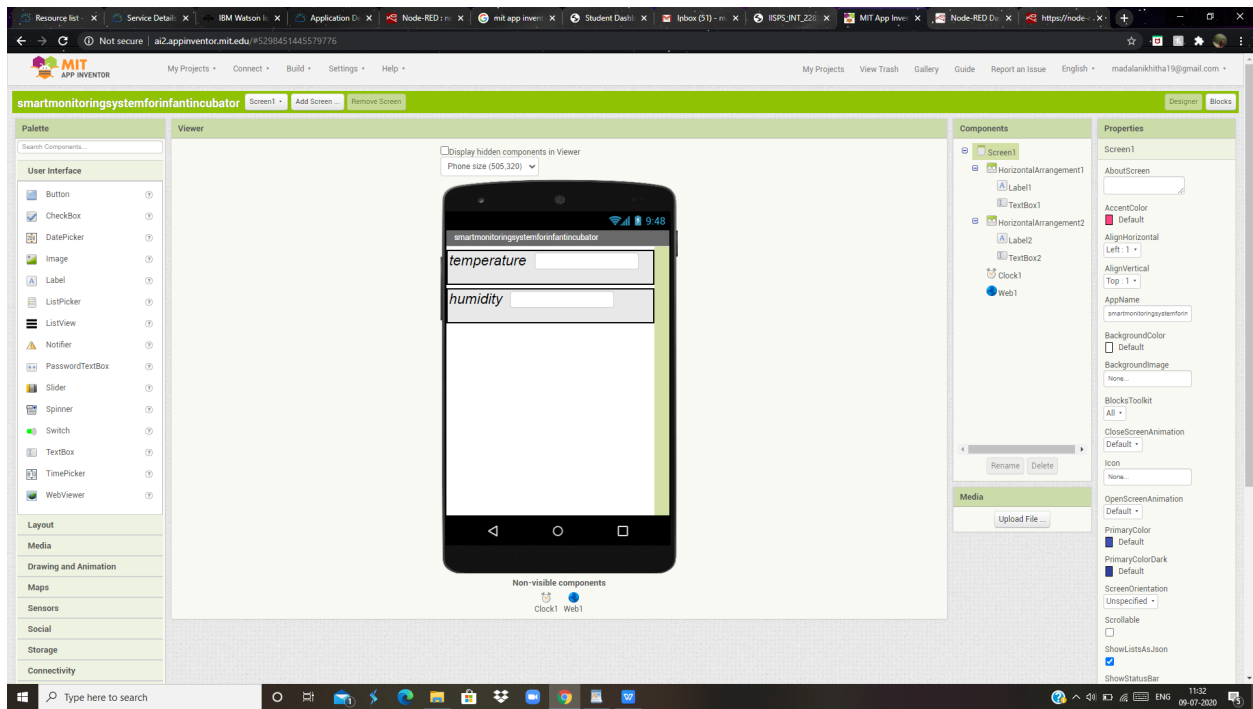
In the proposed system we can find the infant temperature and humidity levels..... If the values exceed the threshold parameters we can intimate the nurse or doctors so that they can take the necessary precautions..Alerts will be generated and also the alarms are produced for alerting the nearby people.here we used the device simulator to see the temperature and humidity values ...



here we can use node red flows to display the values in the web page.

Hardware and software designing:

The hardware part of the project involved dht11 sensor. The three sensors are connected to the simultaneity. The sensor values are read by the simulations, processed, and then sent to the IBM Cloud services using the Pi's Module. The data send to mobile application which was developed using MIT app Inventor. Here we use Arduino language for simulator. NodeRed, etc., Software tools are used. we used a node red flow editor to display the values in the web page.





finally
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we used an sit app to display the values in the mobile phone.

so finally the values got to the mobile phone and we get a message when the temperature is too high or too low.

5:46

VoLTE LTE
LTE1

< QP-FSTSMS

Delete

7013361058:The humidity is high.

7013361058:The humidity is high.

7013361058:The temperature is low.

7013361058:The temperature is high.

7013361058:The humidity is low.

1 11:33 am



7013361058:The temperature is high.

1 11:35 am



Bookmarked here for unread messages



7013361058:The temperature is low.

1 3:45 pm



7013361058:The humidity is high.

7013361058:The temperature is low.

7013361058:The temperature is high.

7013361058:The temperature is low.

1 3:46 pm



7013361058:The temperature is low.

7013361058:The humidity is high.

1 3:48 pm



7013361058:The temperature is high.

7013361058:The humidity is low.

7013361058:The humidity is high.

7013361058:The temperature is low.

1 4:01 pm



here we give an alert to near by people by giving messages.....

Advantages in Ito health care:

The consuming connection of health devices and data centralization many significant benefits to the table, such as Allaround technological enhancement. Rendering hospital visits unnecessary, passively accumulating and deeply analyzing importation data, etc. We've already pondered on all these advanced incapacitate enough. The IoMT provides space for fantastical long term innovations. Cost savings. One of the greatest advantages of IoT in healthcare Istanbul efficient autonomous systems will cost less to manage employable in the long run. Things are even better when it comes patiently cost savings due to fewer hospital journeys as well accelerate diagnostics and treatment. Accessibility. Doctors can view all the necessary data on command and check real-time patient conditions without leaving their office.

Disadvantages of lot heath care:

Alternatively, some downsides that come along with the massive implementation of the IoT in healthcare include: Privacy can be potentially undermined. As we've already mentioned, systems get hacked. Lots of attention will need to be focused on obscurity, which requires significant additional spending's.

Unauthorized access to centralization. There is a chance that

Applications :

- Medication management apps
- Fitness apps
- Body, activity, & sleep tracking apps
 - Pregnancy monitoring apps
 - Individual health recording apps
- Tracked Suggestible Sensors
- Remote Patient Health Monitoring

Conclusion :

Thus, the proposed system could gather, reading of various important indications of the patient and after that evaluate at cloud then caution the doctor or concerned individuals about the health condition. It monitors the vital signs and sense abnormalities. These abnormalities alert the medical staff ,it reduces the manual monitoring.

Future Scope:

It increases more applications for more and different problems and it increases opportunistic and decreases the problems.m