SMART HEALTH MONITORING SYSTEM FOR ELDERLY PEOPLE USING IBM CLOUD

By

V.Naveen Yugenthar

1 INTRODUCTION

1.1 Overview

Healthcare monitoring system in hospitals and many other health centers has experienced significant growth, and portable healthcare monitoring systems with emerging technologies are becoming of great concern to many countries worldwide nowadays. The advent of Internet of Things (IoT) technologies facilitates the progress of healthcare from face-to-face consulting to telemedicine. This paper proposes a smart healthcare system in IoT environment that can monitor a patient's basic health signs as well as the room condition where the patients are now in real-time.

1.2 Purpose

Health Monitoring System provides multiple options to change the traditional management of patients. This reduces the cost of health care to improve the treatment process and provides a remote health monitoring system.

2 LITERATURE SURVEY

2.1 Existing problem

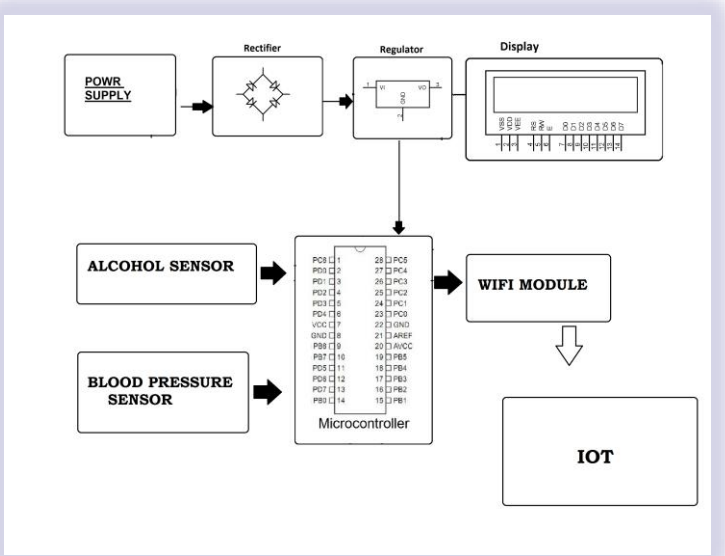
Health monitoring system for elderly people living is created because they forget the things they do due to their age .

2.2 Proposed solution

Use of Smart Health Monitoring System to regulate temperature and their pulserate to help the elderly people to know their temperature and water level for better living.

3 THEORITICAL ANALYSIS

3.1 Block diagram



3.2 Hardware / Software designing

Hardware components used are : 1.Smartband 2.Temperature sensor 3.Pulse Rate sensor 4.Connecting wires.

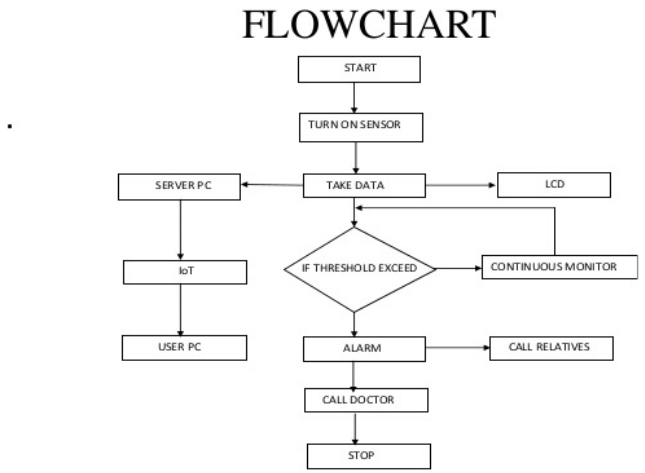
Software components used are :

1.IBM cloud 2.IBM IOT platform 3.IBM Watson 4.node-red 5.Python IDLE 6.MIT app inventor

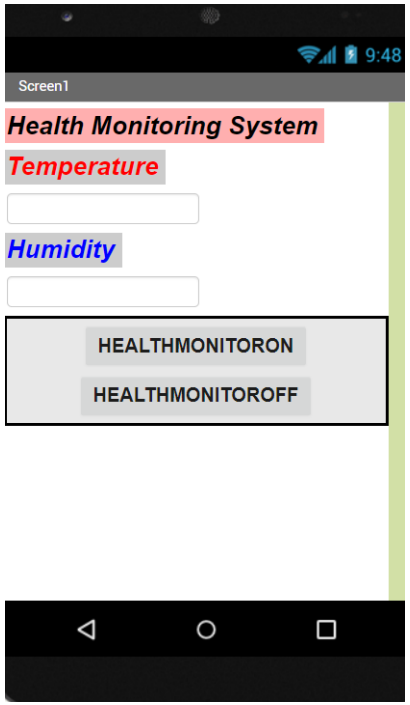
4. Experimental Investigations:

There are several IoT authentication challenges and issues that need to be understood before employing the right security solution that can dynamically vary with the situation. Based on certain critical situations such as IoT health applications, frequent authorization and authentication are necessary and could dynamically vary, potentially resulting in changes to the authorization of IoT devices. To address these issues, automated mutual authentication without user intervention is required in supporting users from remembering passwords for a large number of devices.

Flowchart:



5. RESULT:



6 ADVANTAGES & DISADVANTAGES

PROS:

- Elderly people can be helped in a short period of time.

CONS:

- It requires a lot of skills in order to manage and maintain an incubator.
- The incubator requires power source to work. In most rural and remote areas, reliable source of power is a major challenge.

7 CONCLUSION

Smart Health Monitoring using IBM cloud and iot was created and was used for treating elderly people.As the success rate is high, it is highly recommended for use for people who are elder.

9 FUTURE SCOPE

With more High-end hardware and software, the smart health monitoring system can be customized and can be upgraded and improved for more efficiency and success rate.

10 BIBILOGRAPHY

a.Github
b.ubuntupit
c.youtube
d.smart internz

11 SCREENSHOTS: