Wrist Band with Live Tracking facility for Covid Victims

Review : 1

Group No : 5

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Contents

Introduction

- **Wrist Band with Live Tracking facility for Covid Victims**
  - Wristband with Live Tracking and medical assistance of covid infected people.
  - In case of emergency the people under home quarantine can also inform the health department just by pressing a button and get emergency medical support.
  - By pressing the button, a message will be delivered to health department and nearby hospitals, so that an ambulance can be send to the patient’s location.
  - The health department will also get an alert whenever they violate social distancing.
  - In case of violation, the health department can find their location along with information on how many times they have violated social distancing rules can be acquired.

Objective

- To develop the prototype of a Wristband with Live Tracking and medical assistance of covid infected people so that others can prevent themselves from getting infected.
- The project aims to track quarantined patients and aid health workers and those delivering essential services.
- It will be used to monitor the movements of quarantined patients, both at home and at hospitals, and any spikes in their body temperature.

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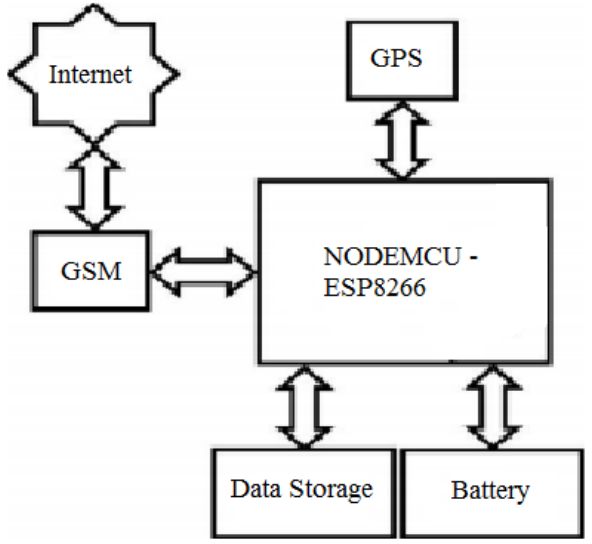
Literature Review

- Real-Time Vehicle Tracking System Using Arduino, GPS, GSM and Web-Based Technologies(IEEE)
  - A real time tracking system which is used for tracking and positioning of any vehicle by using Global Positioning System(GPS) and Global System for Mobile Communication (GSM) is implemented with Arduino Uno R3.
- Body Temperature Monitor and Alarm System Used in Hospital Based on 1-Wire and Wireless Communication Technology
  - The use of a digital temperature sensor compatible with Arduino board ,for measuring the temperature of the human body was presented in this paper.
  - Multi-temperature sensors DS18B20 is used for measurement of body temperature in this paper.
- The live tracking of human body by these technologies has not been reported in the literature. The accuracy level of the proposed system for human tracking has to be tested after the implementation of the prototype.

Proposed System

- Step-1 :
  - Programming of data collection processing and communication in Arduino IDE
- Step-2 :
  - Design of Hardware module having features of Temperature sensor, SOS Button, GPS tracking system, communication module to interface between the Arduino cloud and the server station.
- Step-3 :
  - Testing of prototype.



Technology

- Arduino cloud platform
  - Arduino IDE 1.8.14
    - Language used : java, C
    - Libraries used : ArduinoIoTCloud, GSM, SD
- NODEMCU - ESP8266 Wi-Fi Development Board

Current Status

- Literature survey
- Arduino cloud programming
- Hardware design
- Timeline status

Work	Time duration
Programming	November 5, 2020
Hardware	November 15, 2020
Testing	November 25, 2020

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Problems Facing

- Size of the prototype
- Hardware design

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Conclusion

- Literature survey has been done and Arduino IDE 1.8.14 has been identified as the IoT platform for implementation of Live Tracking System.
- NODEMCU ESP8266 can be used as the hardware interface for both sensor and communication modules.