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Electrical Engineering

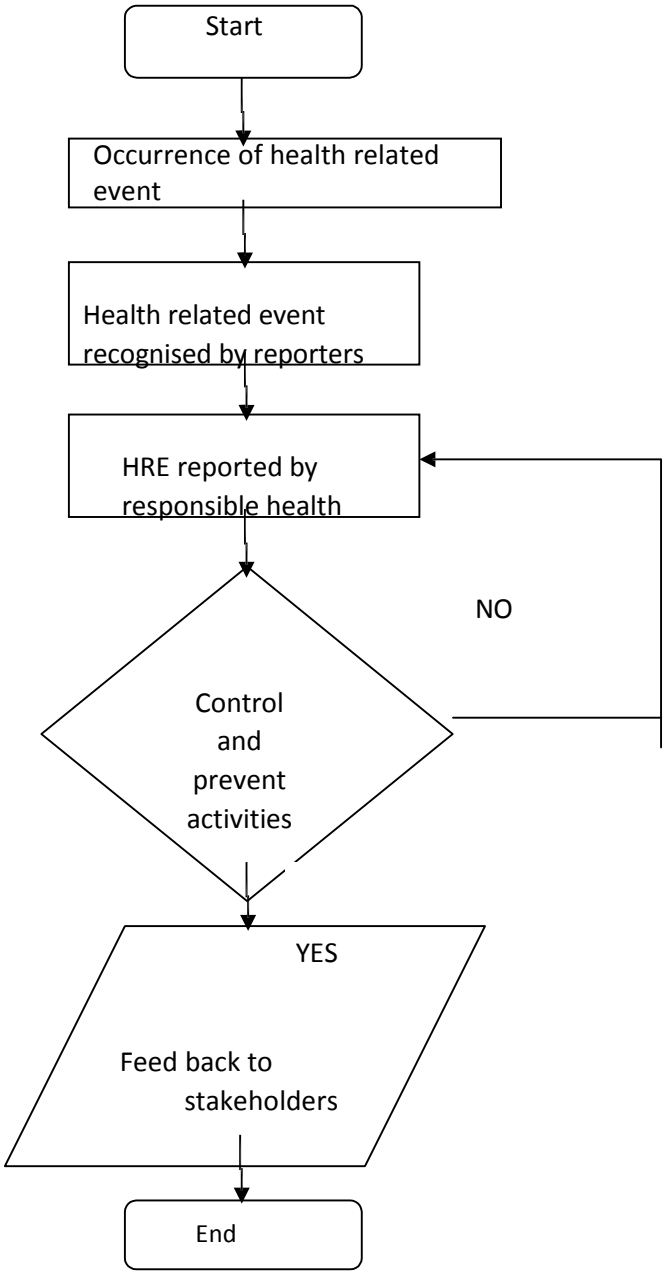
1. This application is a web health system that would allow the detection, display, storage, and transmission of data and also allow access of the database via the web. This system would help to reduce the workload of the nurses in other to keep them away from the infected patients, who would help to reduce the spread of the virus, COVID-19, keep every one safe and reduce the death rate.

   Medical sensors would be connected to the patient in order to obtain vital sign's, which would be converted to biomedical signals that would be transmitted via Wi-Fi/cellular. A webpage would be used to access patient information from the hospital database, if the need arises.
2. Hardware Features:
   a. Router: a networking device that will forward data package between computer networks.
   b. Server: this is a device that would allow the maintenance and sharing of the medical database of the patients.
   c. Monitor: this could be a Smartphone, laptop or desktop that can be used to access the web based health tracking and monitoring system in order to retrieve patient information.

   Software Features:
   a. Laboratory test conductor
   b. Web Design Package: this software would be used to design the web template that would be used to access patient information via the Internet. It would also help to organise and manage the digital information on the website.
   c. Access control management software: this software would control who has access to medical records Using the two-factor authentication.

3.

Flowchart:



Step 2: occurrence of health related event
Step 3: health related event recognised by reporting source
Step 4: health related event reported to responsible public health agency
Step 5: control and prevent activities
Step 6: print feedback to stakeholders
Step 7: End

Algorithm:

Step 1: Start

4. Top Down Approach