

Team Information

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Abstract

 In India many hospital patients are dying due to lack of continuous monitoring of the patients, at least there is a need of a guardian to stay with the patient. But guardian may not be more aware about results of medical instruments. To solve this here is our project with internet of things as **basement**, we are going to update the results of patients in hourly basis or four hour once based on his/her medical condition also we are going to alert the doctors in case of emergency.



Novelty 1

- Time Saving-Here we are going to update medical report in cloud so there is very less paper work(required take a printout).
- Emergency alert In case of emergency there will be a notification to concerned doctor if he/she is not responding for next 2 minutes then message will be sent to other doctors in hospital. If concerned doctor replied that he is busy with other patient then again the message will be sent.



Novelty 2

- Emergency (continued)-If doctor is said to be busy at a particular time or **absent** (doctors can set their status as available, busy, absent) for a particular time then they will not be notified with voice message but there will be silent a notification.
- In case of need of excess oxygen or blood the message will be sent to concerned department and to make resources available.

Technology

- There will be hardware integrated with ab android app.
- For demonstration Arduino UNO R3 based model is used, for real life integration other microcontroller can be used.
 Design of PCB can be shown with Autodesk EAGLE.
- Here microcontroller is connected to ECG and ventilator.
- The algorithm made such that results provided by ECG and ventilators are made as a report and sent to doctor undesired or unusual results notification sent to doctor.



Business Implementation

- Hardware implementation may cost very less roughly around 5,000 INR, even if model is upgraded it may cost hardly 10,000 for a single bed monitoring system total amount can be calculated based on bed requirements.
- Cloud implementation is based on hospital decision to go with open cloud or private cloud platform. Based on the decision cost will change accordingly.