FINAL PROJECT

**Problem Statement:**

In most developed countries, heart disease is the leading cause of death. Because of plaque buildup, the heart's beating motion is disrupted. Such patients with heart conditions need constant attention for help in case of a heart attack or cardiac arrest. Doctors and Nurses need to attend many other patients in the Hospital, hence it becomes difficult for them to give constant attention to one patient alone, at the same time the medical response time to the patient, who needs urgent help, would be delayed.

**Purpose:**

The purpose of this project is to eliminate the need for constant attention for the patient by the Doctor and the Nurse and to reduce the amount of medical response time as much as possible.

**Solution Proposed:**

The Hospital will provide patients with sensors which are capable of detecting heart attack and cardiac arrests. These sensors can also be used for patients who are live alone at their homes and can collect vita sign data such as blood pressure, pulse and various other vital signs. If there are any inconsistency in the vital signs, the device will send an alert to the nearest hospital, along with the patient’s geolocation for the ambulance support. If the patient is in the hospital, it will alert the hospital management, who will then immediately assign a doctor or nurse to check on the patient’s state and vital signs.

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