

# Idea description

Stage 4 - Template 2 out of 2



## Problem

What problem are you trying to solve? What user need are you satisfying?

The core problem here is that elderly patients suffer from chronic diseases that make it so hard for them to do much physical work, even walking from a room to another is difficult, so our device aims to make it easy for this segment of patients to do checkup as if they are in hospital and with such a link with their doctors they can confirm their states according to the output values of our device.

The user we decided to talk about is the elderly patients whose ages are 60s or above, and we decided to focus on this segment for some reasons: With the ever increasing queues at hospitals and ever increasing number of patients, elderly patients can't bear to stay for long hours waiting until their turn come.

Most of them have chronic diseases.

There are patients that suffer from difficulties in movements and they need regular checkup but they can't go to hospital frequently to do them, so they need such device to help them in that.

Most of them suffer from balance diseases so, we introduce a device detecting falls and check their vital functions.

## Solution

What is your idea and how does it work? What is the core functionality of your idea? What is your unique value proposition to the user? How will you market your solution and reach the user?

The IoT Based Health Care System is a healthcare device based on the IoT platform for the patients and doctors. It provides measurements of body parameters like Electrocardiogram (ECG), Temperature, Oxygen saturation, Heartbeat and more. It also detects the body condition and location of the patients. In this project we are using various sensors and modules for performing a different type of functions and the Cloud is used for storing all the data in the cloud, it provides security and facility of accessing all the parameters at any time which is very useful for the doctors at the time of treatment. This system also generates an alert when it is required that means at the time of any critical conditions and notifications about the medicines, fall detection, conditions, etc. Our solution markets itself by being easy, flexible and available for everyone. However, marketing can be held through the hospitals and individual doctors as this will bring them more patients or by Medical Services providers.

## User

Who are you helping with your solution? Who is the most important user?

Our solution not only helps the patients by offering them easy checkups from their own home, but also the doctors and hospitals in easy patients monitoring.

The most important user is the patient of course, mainly those whose ages are 60s or above as it provides a virtual hospital with fast checkups without the need of going to an actual hospital, moreover, these checkups are sent regularly to the hospital for monitoring.

## Competition

What are the alternative solutions to the problem? Who offers these solution? How will you beat the competitors?

The Main alternative solution for regular check ups for patients is to appoint a home visit from a doctor to measure the necessary vitals for the check up , Some hospitals and labs offer that solution. The Main advantage we have over other competitors is that the check up can be done anytime without the need of an appointment or the extra fees.