Feature/Objectives Planning

The whole project is divided into 7 modules, and this seven modules are equally distributed among the 4 team members who are going to lead the team in their allotted module. The task distribution is as follows:

1. Connecting Heart rate sensor module to Arduino.
2. Coding in Arduino for calculation of Heart Pulse.
3. Connection of BOLT Wi-Fi Module for Arduino.
4. Setting up E-Mail automation service using Mailgun.
5. Setting up SMS service using Twilio.
6. Using Digital Ocean VPS to run Heart Rate Monitoring Code.
7. Interlinking every API with each other.

Keeping in view of the above tasks 1,2,3 are lead by Hemanth and Jaswanth. 4,5,6 are lead by Hari Kiran and Siva Sai. Whereas the 7th modules is common for everyone since it contains interlinking of all the API’s which are used.

There are three Features/Objectives of the project they are :

* **AUTOMATED**: Automation is one of the emerging technologies now where any given task is automated based upon the requirements of the users. The whole project is completely automated. No human intervention is required for sending the data from the patient to the doctor. SMS and Email alerts are automatically generated using the best in line third party services like Twilio and Mailgun.
* **EASE OF USE**: This project is very simple to use. To use this project no knowledge about the components is required. The patient has to simply put his finger onto a sensor which collects the data and this data is sent to the doctor automatically in the form of an SMS and an E-Mail. So this creates an easy to use and understand environment for the users of this device.
* **LOW COST**: one among the main aim of this project is to provide low cost and user friendly device to measure and keep track of the user’s heart pulse. Generally these machines could cost close to 2000RS. But with the help of Arduino uno and using free services like Twilio and Mailgun the cost is significantly reduced.

USER STORIES

1. As a developer of this project, I will do my best to provide users of this project a simple , seamless and an automated experience.so that the users of the project will not have any trouble using it.
2. As a patient, I should be able to view my readings and I should receive immediate assistance. So that if there is any emergency the doctor should come to know about this and I should receive assistance immediately.
3. As a doctor, I should be able to monitor my patients without any interruption and should be notified immediately if there is any anomaly in my patients statistics. So that I provide my assistance to the patient.