

PROPOSAL

Project name: - Measuring heart rate and body temperature. (**THRR device.**)

Team members: - Gurpreet Singh and Shubham Sharma.

Summary: - The project is based on the idea that, our product can be used along with the hardware we are designing. The main purpose of the product is to monitor heart rate and temperature in order to improve the performance of the user. The product itself is designed only for recreational purposes and must not be used for any medical purposes. We are working on tmp102 and max30105 sensor in CENG317 and **our app** will display the readings of our sensors.

(TMP102)Temperature sensor: - It will detect the body temperature.

MAX30105 SENSOR: - It will detect the heart rate of the body.

Plan:-

Our application:-

Will include a login page and password authentication. It also ask to sign up if there is a new user.

Once you login into the app you can select any option between what to see whether it is temperature reading or heart rate reading of the person who is operating the device and the results will be displayed on the screen.

Database will keep the record of the readings before and after performing the physical activity.

Data collection:-

Database will receive the data from the sensors before and after performing the physical activity. The readings then will be accessed and displayed on the app.

Work load:-

We will be dividing the work equally and try to get our hands on lots of things as we don't have any of the other course after 14th of December. We will try our best to reach all the requirements for the app.

Shubham will be responsible for the overall design of the application. The points taken under consideration will be to make it user friendly.

Compatible to most of the display sizes and managing the different Pages of the application.

Will be responsible for View and half of model(design and implement database).

Gurpreet Singh will be responsible for creation of the database that will collect the data from the sensors, will also save data for user authentication and link different pages.

Will be responsible for Controller and half model(connect app to database).

Estimated Time: -

Typically the time given to us to complete the project is 35 days. But we will be working hard on it once we are done with rest of our semester. So that we can complete by 25 Dec and show it to you on 26th Dec. As one of the member (Shubham Sharma) is going back home due to personal reason. We hope that everything goes well because we have a little bit of overview from the semester of what to do.

Similar Products:-

Smart health tracker is a sort of device which tells us about the well-being of the person by measuring the body weight, body fat, blood pressure etc.

There are several product already on the market for body and heart rate monitoring. (see: https://www.gearbest.com/heart-rate-smart-watch-temperature-_gear/)

Our application:-

It will be a sort of device that can act like smart health tracker but can help us only in measuring the heart rate and the temperature of the body. Which once connected to the database will show the readings on the app.

Conclusion:-

*This application will help us to know the well-being of the person by measuring the heart rate and temperature using THRR device and the readings will be displayed on the app which will be connected to the **THRR device** via database connecting our hardware to the software.*