



SOFE 4610 Fall 2021 - Design & Analysis of IoT

Project Title: Smart Band

Project Group No: 11

Group Members:

Esam Uddin - 100711116

Ashwin Shanmugam - 100700236

Mihir Patel - 100702168

Github Link-

<https://github.com/esam191/IoT-Application-Smart-Wearable>

Project Description:

The project aims to develop an IoT application based on the IoT platform that we will build in class using, “Develop a Fully Flexible and Scalable Internet of Things Platform in 24Hours by Anand Tamboli”. We decided to build a smart band as our IOT application. We will essentially create a device for monitoring fitness related metrics such as footsteps and calories. The device will be able to connect to a mobile application and send fitness data. The mobile application is built to keep a track of the users fitness data and to establish fitness goals.

Functional Requirements:

FR01: The application should be able to successfully count the number of steps.

FR02: The application should be able to keep track of the distance that the user has travelled.

FR03: The application should be able to track calorie consumption.

FR04: The application should use appropriate sensors to track distance walked.

FR05: The application

Nonfunctional Requirements:

N-FR-01: The application should display the necessary metrics on a display.

N-FR-02: The device must be able to operate through a low power consumption.

N-FR-03:

N-FR-04:

N-FR-05: