Adrian Caprini : n01115682, Johnson Liang: n01129137, Raphael Carlo Najera: n01104031

Project scope

FitTrack will attempt to accommodate as much healthy features possible to promote a healthier life style and choice for our users. Our users will have the opportunity to try multiple features such as a step counter, recording exercising goals, keeping track of diet and many more. On the side we also want our users to learn more about their body and why it acts a certain way.

I believe the main sale point for this app will be attempting to incorporate our sensors from class CENG 317 into our software counterpart. We will be attempting to join a thermal array sensor and a sunlight sensor in order to gather real life data. However, these features will be incorporated in CENG 355 of semester 6. The thermal array sensor will track a person or object based on their heat temperature. As a result, it will track the higher the output. Meanwhile, the sunlight sensor will retrieve the UV index outputted from the sun. The data gathered will be transmitted into a database which will be displayed to our user. Additionally, depending on the data the app will alert a user if they are exposed to too much sunlight and ask if they want to learn the risk factors.

App Class Functionalities

Step counter – Will use the pedometer built in our phone to keep track of the user's step

Calorie Burner – Using the data gathered from the step counter, this class will calculate the amount of calories burnt based on how many steps were taken

Challenge –Pre-set challenges and goal for the user to complete

Notepad – Allow the user to keep track of their diet or to simply jot reminders

Learn more – Redirect users to information screen so they can learn more and the symptoms

Thermal array – Needs to rely on the hardware counterpart to retrieve heat temperature signals

Sunlight sensor – Also relies on hardware counterpart to retrieve UV Index

Timer function – Used for interval training

Record/Progress – Record you weight from Day 1 and watch your progress

Alarm – notification to alert you

Quote – Healthy quotes of the day

Weight – a log for the user's starting and final weight

Scheduling

First and foremost, the thermal array and sunlight sensor functionality will be implemented last as it relies on our hardware counterpart to retrieve data. I believe accessing the pedometer and cooperating with calories burner will be the hardest so that's our main focus. Functions like quote, alarm, record/progress, and timer will be targeted and implemented first as they are "easier" functionality compared to the rest.