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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

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.