CMSC436 Project Proposal: TerpFit

Project Team 17
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App Description
This app will allow a user to track their nutrition/macros (calories, protein, fats, etc), set weight goals, and allow them to track their workouts.

Minimal Goals
- Users are able to log into their food intake and track their nutrition/macros
- Set a daily goal/schedule for calorie/nutrition/macros intake.
- Users can manually enter in their workouts and view previous workouts.
- Users are able to see an entire summary of their workouts/activities and food intake.
- Display to the user how busy Eppley and Ritchie are at a specific time using a foot traffic API. It would also suggest which times are least crowded.

Stretch Goals
- Personalize fitness results (such as calories burned) based on user's size, gender, height, and other factors
- Track the distance the user runs/walks using map functionality. This will utilize motion sensors and mobility functions of a mobile device.
- Use AI to provide personalized fitness results and recommendations to the user.

Project timeline
Milestone 1
- Have UI and app design sketched out
- Ability to log in the food intake
- Scrollable list to view the food intake

Milestone 2
- App layout coded (tabs, buttons, essential layout and navigation). All values are hard-coded for now. At this point, the app will be easy for each member to create a fork of, and individually develop their own features in their own time and environment.
- Have roles assigned for each member on which features of the app they are going to develop

Milestone 3
- Focus on testing whether the functionality for minimal goals work
- The app will be able to calculate the daily goal of calories for the user so that they can reach their weight goals.
- Users are able to enter their workouts and view previous logs.

At this point, we will begin working on the stretch goals.

Final Demonstration.

Stretch goals completed, project submitted, and a demonstration scheduled.