

CPSC 481 - Team K - Stage One

Teaching Assistant: Philmo Gu

Tutorial Section: 02

Date: October 2, 2020

Instructor: Lorans Alabood

Team Members:

Evan Argenal-Garcia,

Brett Gattinger,

Ahmed Hasan,

Mohit Parmar,

Malik Mohsin Raza

Project Ideas:

1. Map Activity & Events Recommender

Problem:

- With many events happening around the city, it is often challenging to track and be aware of the available opportunities. Currently, people will learn about events through certain social media accounts, but this information is spread out and not consolidated anywhere. This is challenging when someone is either travelling to a new city looking for something to do, or is a current resident who is trying to learn about local events that they can attend, meet new people, and have fun at.

Importance:

- As many organizations put great efforts into hosting events that help build a stronger sense of community, their work is often unnoticed as many people may be too busy to learn about what is happening around them in the city. This is a missed opportunity for people to come together to socialize and learn about different cultures and ways of life.
- Many people in our society end up neglecting their social life due to work and other obligations. They forget to socialize and build meaningful relationships with others in their community, which is key to living a balanced, connected, happy, and healthy life.

Potential Solution:

- A platform that consolidates all the events happening in a city and makes personalized recommendations to the user and notifies them of opportunities. This way, the problem of sparse and limited information can be resolved and people would have greater knowledge about events that they would be interested in attending. This can also help event hosters see more engagement and ultimately help build a stronger community.

System Type:

- This would be in the form of a mobile application as push notifications can alert the user anytime of events happening around them.

2. Fitness Planner App (Smart notification and planning system)

Problem:

- When people begin pursuing fitness goals they can face a variety of challenges: People may not know what exercises will be best to achieve their fitness goals, have difficulty learning the motions of new exercises, have trouble staying committed to their workout schedule, and may not have the same equipment availability as others. Although a personal trainer helps solve a few of these problems, it can still be too expensive for many individuals.

Importance:

- Physical fitness can be a very important tool as it helps lead to a healthier lifestyle and improve mental and physical well-being. Moreover a lack of physical fitness may lead to a higher risk of long term health issues that could prevent the user from living their desired life.

Potential Solution:

- A mobile fitness app which will ask the user what their fitness goals and preferences are so it can construct a fitness plan. This plan will help achieve their goals based on things like availability, age, current fitness level, and equipment availability. The app would help individuals keep track of their fitness goals and also have the information that they need to achieve their goals.

System Type:

- A mobile application will give notifications to help the user stay motivated and on track. A mobile application would be accessible anywhere and anytime so a user can get a workout whenever convenient for them, rather than being limited to working at home or at the gym.

3. Health Tracking App (Hydration, heart rate, food intake, and other health metrics)

Problem:

- As people begin to live busier lives, it can be easy to forget about taking care of one's well-being. Many individuals find it hard to monitor their health metrics and lifestyle with simple tasks such as forgetting to drink the necessary amount of water per day, getting the proper nutrients and vitamins, or failing to realize if vital organ functions are working correctly. The challenge here is to provide easy-to-understand health information so a user can take proactive approaches to living a healthier life.

Importance:

- Fitness is crucial when it comes to taking care of health and avoiding illnesses or diseases. If individuals are unable to identify their health information, they may not be sure about their current fitness levels which could cause them to miss critical information that could have allowed them to take action sooner.

Potential Solution:

- A mobile application could help those who are trying to keep their fitness metrics in check. Through interactive notifications, users can track if they are hydrated, eating the right amount, and moving enough in their day-to-day life. The health tracking app could gather and keep track of information about the user to personalize health plans. When someone doesn't have good physical health, it can trickle down to other vital components such as mental health, which can affect the user's overall life.

System Type:

- A mobile application will be used to provide quick and easy recommendations to enhance the user's wellbeing.

Portfolio Link:

- <https://mperror.github.io/cpsc481-TeamK/>

Github Repository Link:

- https://github.com/mperror/cpsc481-TeamK/tree/stage_one