Project Milestone 1 - DUE 9/27

https://sreeshanath.github.io/Project%20Milestones/Project%20Milestone%201/index.html

Team Number: 203-2
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[Brainstorming from Lab2]:

(python or html)
-app that takes symptoms, searches for websites that have diagnoses for these symptoms, give user a percentage of diagnosis accuracy (in terms of validity of sites)
-file organizer
-magic ball app but with dinner recipes
-app to filter your bank subscriptions from subscriptions that are no longer active or unnecessary

Architecture:
(if website, hosted in the cloud)
- app that uses a decently sized database of medical websites to check for symptoms
- app that searches through files in computer and organizes to user's preferences
- app that randomly chooses pre-made dinner recipes (like magic ball)
- website that takes pdf scans for subscriptions

Application Name:

ReciMe

Application Description:

Android application that displays recipes based off what kind of meal you're looking for. You can choose either breakfast, lunch, dinner, or possibly dessert. This will most likely run on some sort of randomization algorithm that randomizes the recipe within certain stipulations that the user supplies. This will simplify the lives of those who just want an easy recipe to follow or are too indecisive to choose one on their own. Alternatively, we could provide a list of matched recipes for someone who wants more diversity and would prefer to use it for ideas rather than a "tell me what to eat" application.

Should we have time, we would like to implement a recipe match, where we input the ingredients that we already have into the app and it returns a recipe that matches as many ingredients as possible so we can use up what we already have in our fridge - preventing waste and unnecessary spending. We would also like to implement a health scale to aide the needs of health-conscious individuals who want the same service from our app. That way we aren't

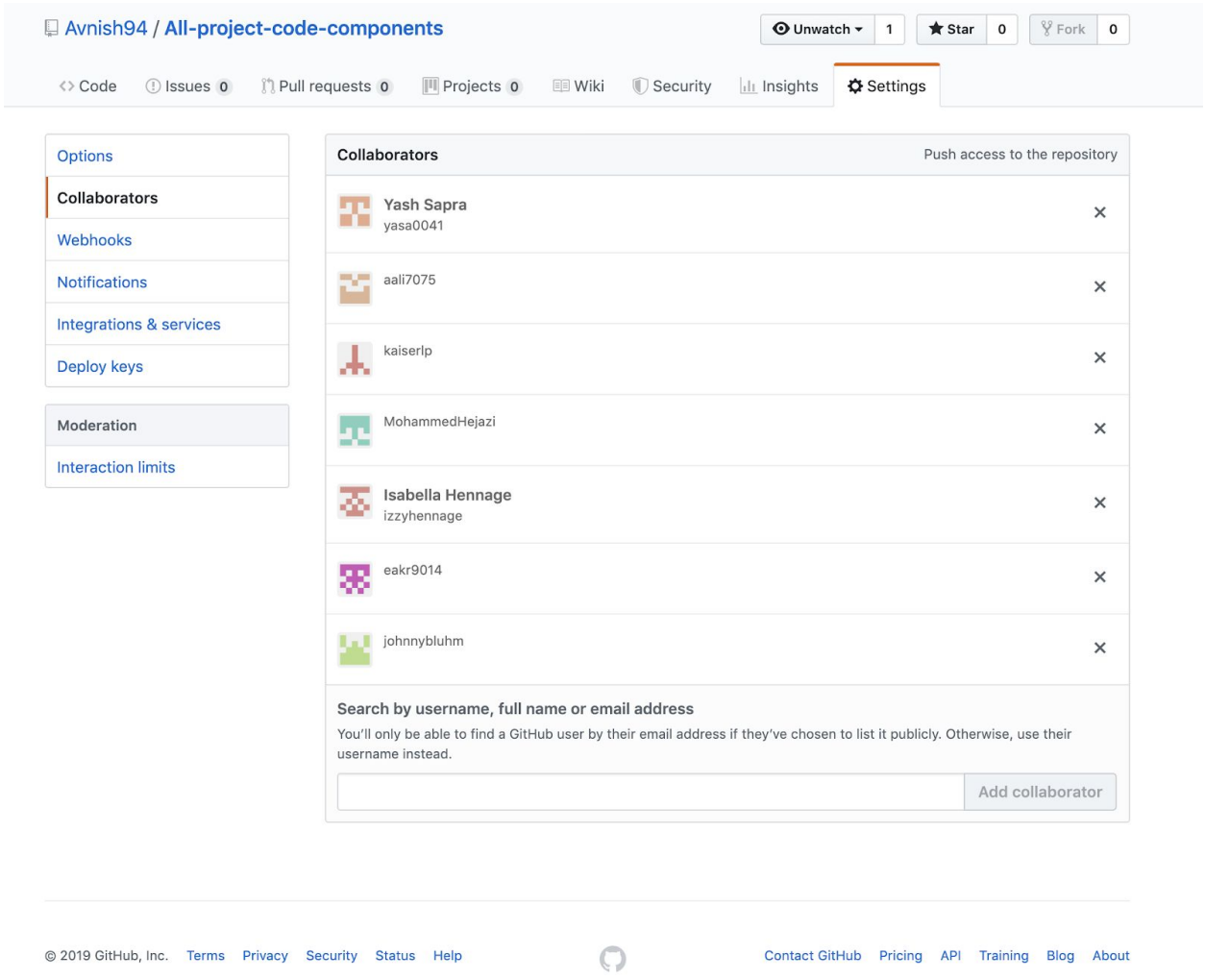
recommending mac and cheese or fancy ramen to someone who would rather have something like a salad or quinoa.

Vision Statement:

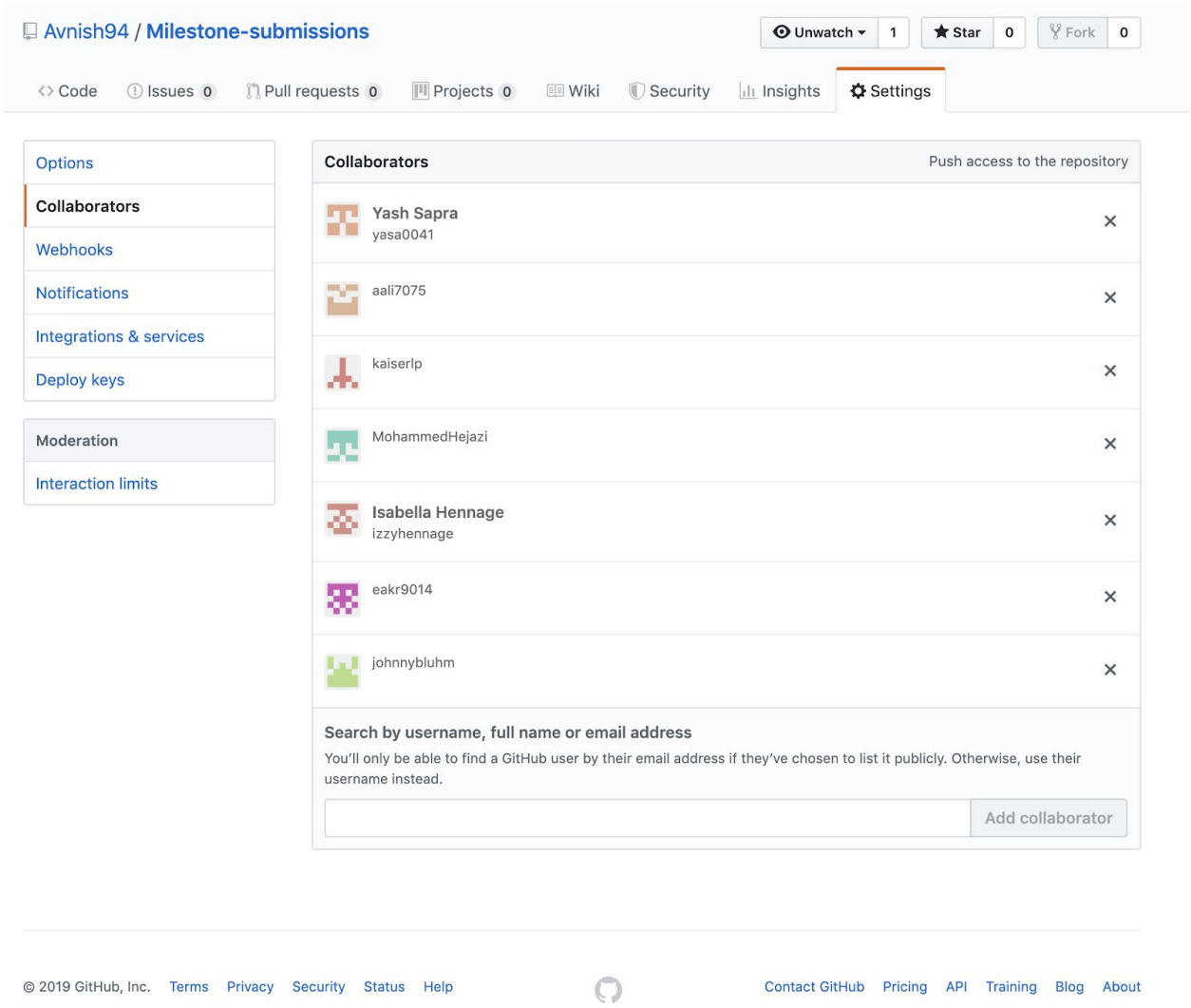
For college students and working professionals who need to eat at home, but don't necessarily have the time or knowledge to research recipe ideas. Unlike a normal recipe websites, our application works with you to find something you'd like to make - saving you both time and money.

Version Control:

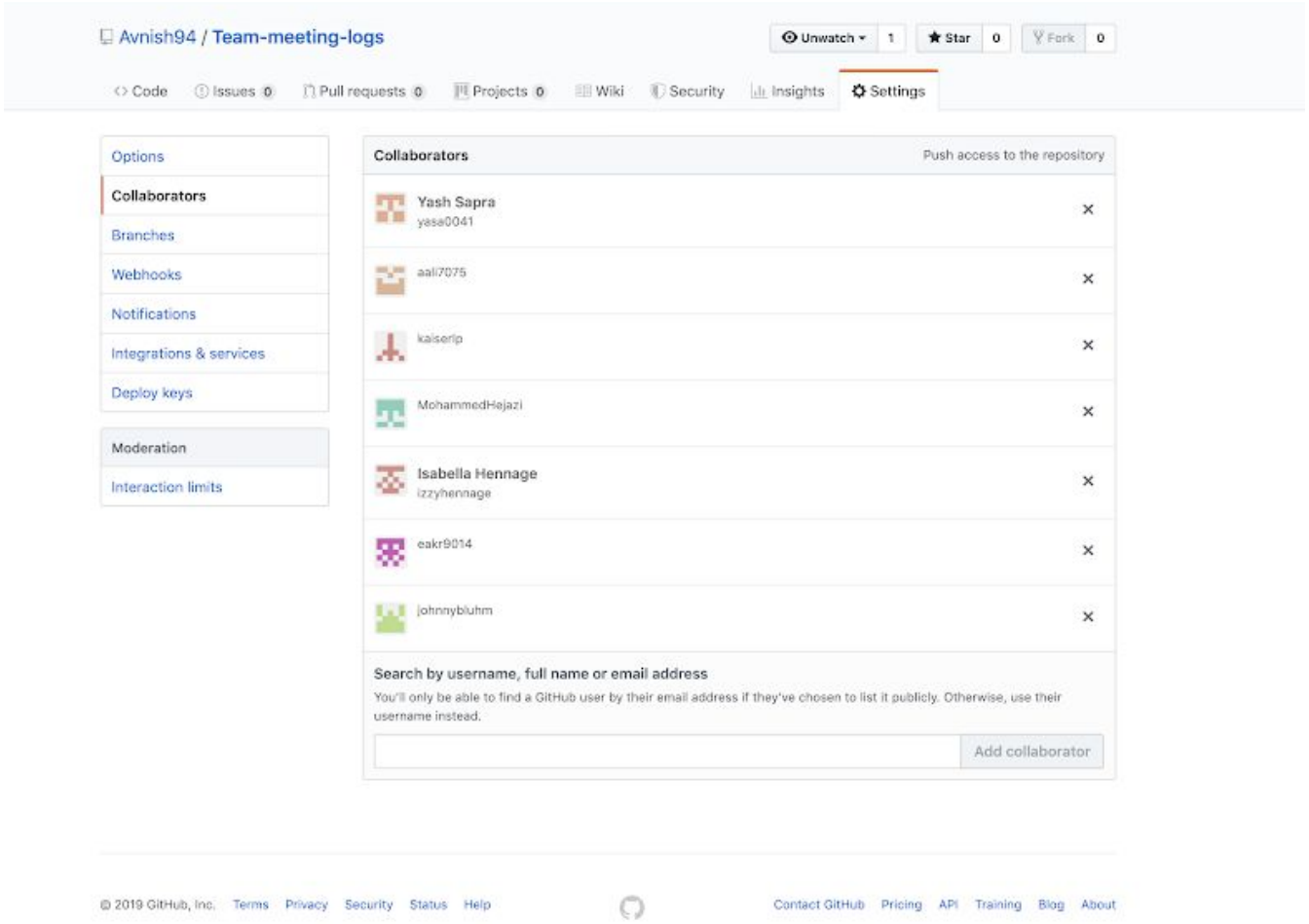
https://github.com/Avnish94/All-project-code-components



https://github.com/Avnish94/Milestone-submissions



https://github.com/Avnish94/Team-meeting-logs



Development Method (Agile Method):

We will use the agile methodology. This entails a circular development method starting with requirements, then going to plan, design, development, release, and finally tracking and monitoring. We will repeat this process of planning, designing, developing, and releasing with all of our coding sprints, using intervals of two-three weeks for our code sprints. In our case, we plan to use each development cycle to implement a feature for our app.

First cycle (2-3 weeks): Develop an app that integrates with API to show recipes

1. Plan: Learn how to build an Android App as well as how to integrate API's into an Android app
2. Design: Decide how to navigate between recipes that is most intuitive for users as well as show pictures of that food item

3. Development: Will be done mostly in one weekend where all of us sit together and code for 3-4 hours a day.
4. Release: Create a functioning App that can show food recipes

Second Cycle (2-3 weeks): Develop options that allow users to choose between different meals, such as breakfast, lunch, and dinner as well as a health indicator.
1. Plan: Learn how to create options buttons as well as a sorting algorithm for how healthy a recipe is
2. Design: Create 3 options screen for breakfast, lunch, and dinner recipes. Also build in an option to sort from healthiest to least healthy recipes
3. Development: Will be done mostly in one weekend where all of us sit together and code for 3-4 hours a day.
4. Release: Update App so that we can show food recipes with a health indicator and mealtimes

Third Cycle (2 weeks): Fix any bugs and begin polishing product as well as implement another feature whether it's cost, difficulty, time, food preference, etc.
1. Plan: Begin polishing the app and implement another feature if there is time
2. Design: Begin making the app more intuitive.
3. Development: Will be done mostly in one weekend where all of us sit together and code for 3-4 hours a day
4. Release: Refine our app that is now product ready and able to launch in the real world

Communication Plan:

During the course of the project, our team plans on using Discord as well as our texting group chat as our main means of communication. The group text message chat will be used for smaller day-to-day communications like quick questions, scheduling, etc. This works for us because it's easy to access and gets quick responses from everyone. If the group is coding on the actual project while in separate places, then we will use Discord's chat feature to talk and collaborate with each other. Discord has a screen sharing feature that we will find very useful for showing our work to others and collaborating closely with the code. This is also useful because we can create separate groups for each sprint if only a couple of us are working on a certain feature. That way we only notify and collaborate with those who are necessary to collaborate with and the others will have more time to work on their own part.

Discord link: https://discord.gg/2YuhdjT

Proposed Architecture Plan:

We will be using python as our backend and android studio to develop and merge our backend with our front-end app. Since android normally require xml in the front end, we will most likely use that to design the layout and UI of the app. We will also most likely be using an API for recipe fetching and matching, this way we don't have to design our own database of hundreds of recipes and instead can give the user exactly what they're looking for.

Meeting Plan:

Our team plans on meeting every Sunday at 6pm. Our mode of communication will be face to face. The area can change from week to week but will most likely be in the engineering center lobby.