Boulder Slackerz Milestone 1

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0.1 Team Name

The team name was chosen as Meal Slackerz

0.2 Members

Diana Mata, Nick Jackson, Emily Millican, Jason Evarts, Qihang Mao, Stian Howard

0.3 Description

This project will consist of a website that will inform students of events around the CU Boulder campus that will provide free food. We anticipate that this will be useful to students on campus who are interested in saving money, meeting new people, and discovering new activities.

This will allow students to look up a list of locations and meetings where there will be free food. The website will populate with crowd sourced events from students and staff who will add their event so it can be shared with the student population, which will increase attendance at the workshops and events.

The obvious benefits of this will be increased attendance for events such as workshops, guest speakers, or club meetings. The benefits to students will be free food or snacks.

0.4 Vision statement

To create a strong community through the sharing of meals and comradeship at events on campus.

0.5 Motivation

Many clubs and departments on campus send out information to students in the form of an email. However, given the large quantity of emails students receive in a day, students often overlook these emails.

As students, we know that clubs, workshops, and even guest lecturers depend on their popularity and amount of attendees at these events. Offering snacks, drinks, and free food often increases the amount of attendees. However, attendance could be increased even more if there were a one stop source for students to gather information about the current and upcoming events. So we decided to build a website to post this information and make it more easily accessible. As a result, more student can get the information they want and the sponsor can attract more people to their activities, which will be beneficial for both.

0.6 Risks

We are facing many risk factors along the development of this project:

HTML: None of us have significant experience with HTML or CSS, so we could get stuck and not get the formatting done in time.

Database: None of us are familiar with database programming so we need to learn how to access and work with database structures

Integration: The team hasn't linked together HTML, CSS, Databases, and Python scripting in previous projects. We also do not know if our proposed integration of Python Flask is the best method for integration of our front end and back end.

0.7 Risk Mitigation Plan

We have some plans to mitigate our risks:

HTML: Look for online templates to start our website

Database: Hopefully learn good techniques in class or fall back on information learned in data structures to create many linked lists.

Integration: We can fall back to getting the system to work on one host machine without server reliance. In regards to Python Flask, we will discuss our decision with our TA and change to NodeJS if that is recommended.

0.8 Version Control

With the permission of Ajay Kedia, our TA, we have a single GitHub repository with two separate directories for milestones and group meetings alongside our project code. https://github.com/stianhoward/BoulderSlackers.git

0.9 Development Method

Our team has decided to use the software development methodology of Agile development in order to complete our project. This will consist of an iterative approach to development where our requirements and solutions will evolve through collaboration between the team members.

0.10 Collaboration Tool

Our chosen collaboration tool is Slack, where we meet remotely every Saturday to make sure each team member is on track with their assigned work for the week. The team also meets in person once a week.

0.11 Proposed Architecture

The team will implement the use of HTML, CSS, and JavaScript to create a smart and responsive front-end website. We will be using Python Flask for the integration layer of our application. The team is strong in Python experience so we will implement a flask python server for hosting the service. We will discuss this method of integration with our TA in lab to make sure that it is the best for our group. Another plausible option is to employ NodeJS, a platform recognized for middle-ware, and the integration technology that will be most discussed in class. For the back-end of our website, we will be implementing SQL to access and manipulate our back-end database, which will include primarily the events occurring on campus, as well as satellite data so that user's location can be determined.