Project Vision: Group Zero (v2)

What we changed (from the first Vision document)

- We modified our features to be written as user stories.
- We re-arranged these features so that features which rely on other features are sequential (100% features do not have optional features to be implemented).
- We added a few features which we verbally described in previous meetings but forgot to add, such as the ability to upload different media formats.
- We added features or were implied from other features to improve clarity, such as the ability for students to specify attendance.
- We updated our stakeholders to be more congruent with the use cases of our application. For instance, we removed "university staff" and "outside investors".
- We added user stories to our customers and stakeholders.

Vision statement

UC San Diego students are constantly hit with flyers, social media blasts, and endless invites on Library Walk - it's easy to feel overwhelmed. That's where our app, **"SoCalSocial"**, comes in. **"SoCalSocial"** aims to centralize and filter information on a more personalized basis, showing students events that only matter to them. This reduces the stress from information overload, so students can focus on what really matters without the clutter.

Features

Basic (MVP) Features

1. **(Account)** As a user, I would like to be able to create an account to store and manage my events.

2. **(Events list)** As a user, I would like to be able to see upcoming events each day, so that I can see all my events in a centralized manner and plan my days accordingly.

3. **(Event information)** As a user, I would like to see all information about various events to stay informed.

100% Features

1. **(Mobile-centric design)** As a user, I would like to be able to view all relevant information from my mobile devices for convenience.

2. **(Club-affiliated official accounts)** As an organization, I want an account to be able to publish my events and for students to discover my organization.

3. **(Users can search for follow clubs)** As a student, I would like a way to find and "favorite" or "follow" organizations I am interested in such that I am always informed about their events.

4. **(Attending/Interested/Not Attending**) As an organization, I would like a way for students to specify their attendance status with respect to their event to know who is going and tailor the event to the attendance.

5. **(Recurring events)** As a student, I would like to know whether events are one-time or recurring so that I can plan better.

6. **(Calendar page)** As a user, I would like to see upcoming events of interested clubs in a calendar so I can plan my time accordingly.

7. **(Media types)** As an organization, I would like to be able to share different media with my event, such as images and flyers, so I don't have to re-describe the information.

8. **(Share an event with a link)** As an organization, I want to be able to share event information easily, such as with a link or QR code. I will be able to share details on physical media such as fliers, centralizing information.

9. **(Discovery**) As an organization, I want users to be able to find my events so that I can gain new members.

Optional Extra Features

1. **(Authentication system with permissions)** As a club officer, I would like to be able to create and edit my club's events from my own account that is linked to the club so I don't have to switch accounts to do work for my club.

2. **(Directions)** As a student attending an event, I would like information on how to get to an event (such as a map or instructions), reducing stress and preventing myself from getting lost.

3. **(Global Map)** As a student, I would like to see all ongoing events around campus currently or in the near future, so that I can discover new events.

4. **(Profile)** As a student, I would like to create an account using my UCSD email and be able to customize my profile however I want.

5. **(Friends)** As a student, I would like to keep track of the events my friends are attending to help me decide if I want to attend events or not.

6. **(Privacy)** As a student, I would like the option to hide the events I am going to in the

interest of privacy.

7. **(Occupancy Limits)** As an organization, I would like to be able to cap the number of students who are specified they are "going" to an event such as to not exceed room capacities.

8. **(Notification**) As a student, I would like to be notified about changes to the event information, such as time or location, so that I am kept up to date with event information.

9. **(Integration)** As a student, I would like to integrate my events with other calendars I use, such as google calendar to be able to see my events with my other occasions.

Customers, stakeholders, and competitors

- **Customers:**
  - Primarily students at UC San Diego and some other individuals related to UC San Diego organizations
    - I want a centralized place where I can effortlessly track the events related to organizations in UC San Diego and know more about them.
    - I want a place where I can discover new organizations and their events as well as events hosted by organizations I follow.
- **Stakeholders**
  - Students: A student who attends some events, and is a member of some organizations.
    - I want a centralized place where I can effortlessly track the events I am attending and discover events hosted by organizations I follow.
  - Organization: A club or other group, typically affiliated with UC San Diego
    - As an organization, I would like to be able to list events in a centralized location to advertise events with a much further reach.
  - Individuals within organizations, such as club officers and board members.
    - I would like to view and manage the events I am involved in.
- **Competitors**
  - Other Social Media organizations use to share events, such as Discord and Instagram
  - Other CSE 110 groups also creating a club event tracker

Risk that may lead to the failure of the product

1. Customers might have stickiness to other pre-existing apps and do not want to add the new platform to their advertising.

2. Authentication system is complicated and can be easily messed up.
3. Bad design and coding leading to convolution and then it becomes hard to add new features or understand what is going on.
4. The calendar page might be tricky to implement especially with respect to being responsive to day-to-day changes.
5. Maintaining the ability to host the website on everyone's devices. For example, all persons would need to be able to successfully run the website and database at minimum.

Plan to resolve the most serious risks

1. Connect with student networks and the access to multiple popular orgs for advertising the app
2. Backup if authentication does not work: Only club accounts can edit and post events. Org leads can switch to the club account to manage events.
3. Maintain simplicity by sticking to few yet essential features; make use of peer and user feedback to help improve design and code
4. Provide an ordered list of all related events without any calendar.
5. Initial runs would involve capping the number of users and clubs using the website until proper infrastructure is obtained. Other ways include capping the number of events one can be interested in, number of friends per user and number of events a club can publish on a given timeframe

General technology plan

Along with using React/TypeScript/HTML/CSS, we will certainly need a database to store information about users, clubs, events, and more across a few tables. A few of our group members already have experience with SQL and relational databases, so it shouldn't be overwhelming to add this to our plate. We will be sure to assign people to tasks according to their strengths and experience.

The other service that we will need is a backend, for which we were thinking of using the flask module for python. Every member of our group has experience with python and some even have experience with flask, meaning there shouldn't be a large amount of research required on this task. We believe our app will be more front-end-heavy in terms of development effort, but we will designate at least one member of the team to focus more on the backend.