**Project Management Tool:**
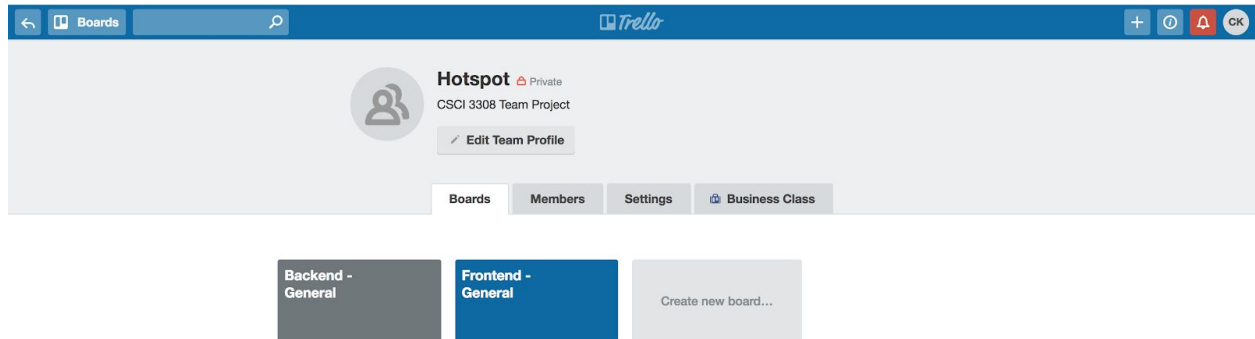
In order to facilitate effective communication throughout this project's development, we will utilize the project management software: Trello.

Screenshot of our team Trello page:



Note: There are more Trello Screenshots later on in the document.

Requirements:

1) Hotspot App shall have a user login interface
   - In order to facilitate an effective user database (and appropriate credentials), users will be required to create a login to our Hotspot domain. This will allow users to interact with our site in a personal manor, and allow for the tracking of user information pertinent to the site.
2) Hotspot shall have a web page that provides a link to download the Hotspot App.
   - A link for Hotspot's sister app is a good advertising element to show domain functionality. Providing a link to the app will notify users of our cross-platform capability.
3) Hotspot shall establish a database for categorizing the events that show up on the map.
   - In order to maintain and distribute information about a posted event, a database will be utilized. This database will include information related to the event (at the author's discretion)
4) Hotspot App shall have an interactive map view of user's local area.
   - A key element in the app's use is the visualization of events around a person's local region. A map will be superimposed as a background for events to be posted on.
5) Hotspot App shall have event pins displayed on the map showing nearby events.
   - Local events will be depicted on a map so that a user can see all posted activities around them. This is a key functional element of the app, as it allows users to post and view events of interest.
6) Hotspot App shall allow users to create or find Hotspots around them.
   - In order to generate events, users will input an event description and category. This will allow users to view the event on the map within their current geographical area
7) Hotspot shall have a search function for certain event.

- If a user requests to view a certain event (or a certain category of event), only the specified event(s) will be depicted on the map. This allows one to narrow search results to a particular interest.
8) Hotspot shall allow users to view event statistics (e.g. number of people)
- Event statistics will be stored as information within our event database. Users interested in an event will be capable of viewing these statistics when they select an event. Event sponsors (the event creator on Hotspot) will be able to modify pertinent statistics if desired.
9) Hotspot may allow Facebook connectivity for login
- Facebook connectivity will provide an ease of access to our domain.

Project Plan:
Sprint sessions will be conducted over three-week intervals. This time frame was chosen so that tasks can be undertaken and reported on consistently. The sprint sessions will include a single weekly meeting time for all project developers so that they can update the team on progress, completions, and potential risks. Over the course of the project, four Sprint sessions will be conducted.

Sprint Developments:
Sprint 1) Initial domain/app development and formatting. Initial database construction.
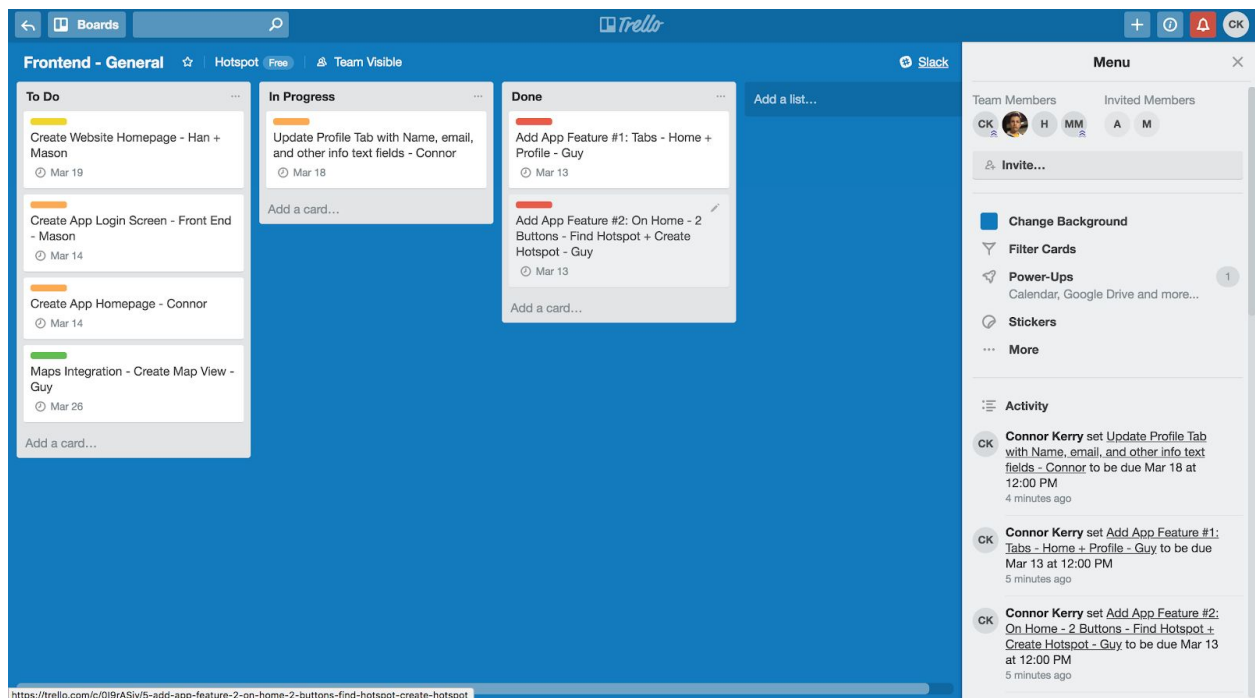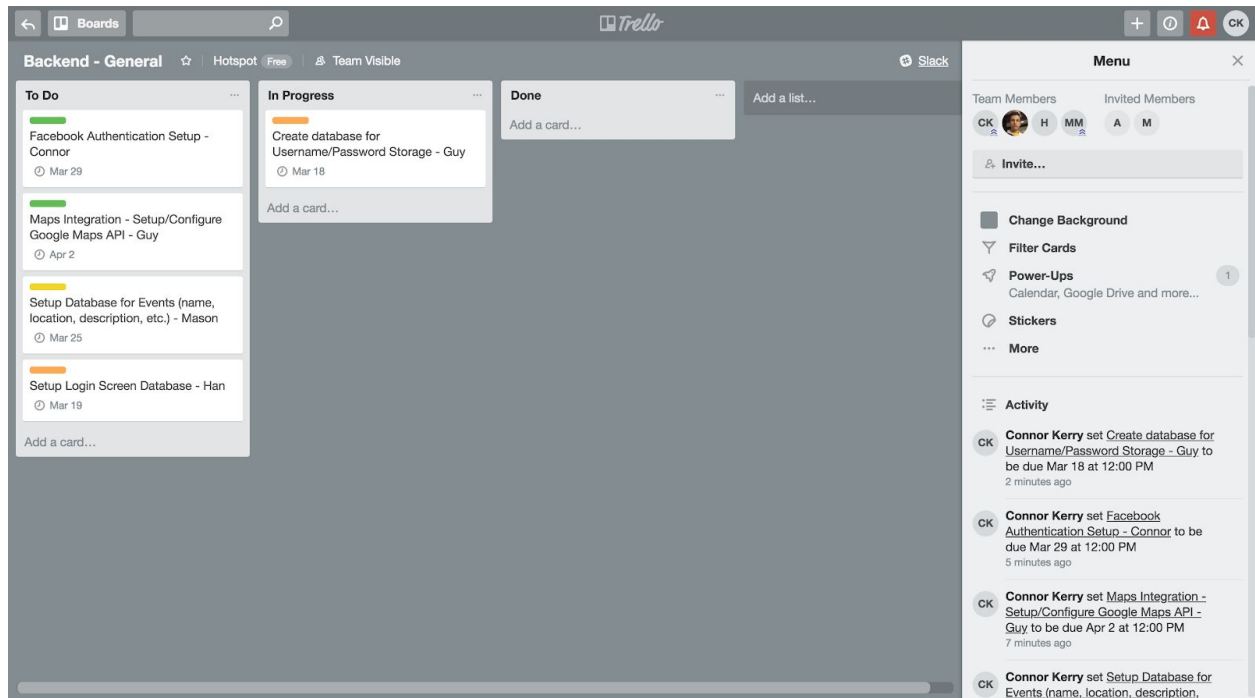Sprint 2) Database refinement and aesthetic improvements.
Sprint 3) User interface testing. Database debugging.
Sprint 4) Project finalization tasks.

**Plan Cycle Within the Project Management Method:**

Three-Week Sprint Cycle:
The following tasks were assigned over our first three-week sprint cycle. They represent software we must complete for initial domain and app construction. The due dates for these tasks are depicted under the task name. Colors in the "To Do" section represent the urgency that the task must be completed. The urgency spectrum starts at green (least urgent) and moves towards red (most urgent).

**Agile Methodology:**

Agile Standup Meeting:
1. What have we completed since the last meeting?

In the last meeting, we determined the main purpose of our project and the basic features of the website and the App. Besides that, we discussed the constructional tools and contact methods for group members to work on the final project.

2. What will we complete before the next meeting?
    1) Document three-week sprints.
    2) Push some basic files to the github
    3) Establish our project in Trello
    4) Assign the temporary tasks to each group member
    5) Update Home and Profile tabs to have basic buttons and info

3. What are some obstacles or roadblocks we face?
    ● Back-End development needs more work. The "middle layer" connectivity between the Front-End and Back-End needs to be developed. Tasks need to be better specified and broken down in order to get things done more efficiently
    ● Getting Google Maps API to work with Back-End event connectivity, plus customization will be challenging

Sprint Retrospective Meeting:
During our sprint retrospective meeting, we concluded that overall the sprint went well. In this first sprint we got some good Front-End/UI work done on the App, creating a home tab and profile tab, which is what we set out to do initially. We are doing well with Front-End tasks but are behind on Back-End software. We need to better coordinate who is doing what tasks, and be more specific about exactly what each task's functionality should entail, and what needs to be done.