https://discord.gg/zdUKBSmp

Project Requirements:

Your application MUST have the following features:

- A login page
- A registration page
- A home page
- A server that allows the UI to communicate with the database
- A database that stores user information
- Passwords must be hashed and stored in the database
- Session Management - The user must be able to log in and out of the application and the session must be maintained
- Application is built within Docker containers - you can find some updates to the docker-compose.yaml in the write-up below.

Some recommended features:

- A UI that allows the user to interact with the application - this can comprise of multiple pages
  - These would be specific to the application you are building
- A profile page (where the user can see their information - optional)
- A superuser/admin account that can manage users (optional)
- A database that stores user data (optional)
  - The purpose would be to store user's activity to be recovered when the user logs back in
- A database that stores data from an API (optional) - if you are requesting repeat data from the API with every call, you could cache some data in your database.

Project Ideas:

1. Site that sorts uploaded images by color, main page has every uploaded image, personal page has personally uploaded images (3)
   a. Similar to pinterest, but with a specific goal of creating visually appealing gradients.
2. Website that takes student's class schedule and creates a map for how to get to each of their classes and their ETAs (3)
   a. Similar to CU boulder's campus map, but the campus map is hard to navigate. A combination of google maps and campus map.
3. Spotify social media: website takes spotify user data to allow users to post their favorite songs / artists on their profile (4)

    a. Emphasis on sharing music and introducing other people to artists. Link to spotify API in order to seamlessly listen to music.

4. Small online game with registration for highest score and comment section (1)
5. Some sort of music site (like Last.fm) that allows you to add songs you like and receive suggestions/data about your listening preferences (link to Spotify API)
6. Google map API derived website where users can select locations on the map and add little notes on a pin for other users to find. (3)
7. Message board/social platform. Users can create a profile, customize their page, and post messages on chats visible to other users. (1)

I made a table so we can vote on our top three ideas, then we can tally which have the most votes and Jules can submit the ideas. – Julia

Name:	Julia	Mia	Makaela	Jessie	Jules
Top 3 idea #:	1, 6, 4	2, 7, 3	3, 2, 1	2, 3, 6	1, 3, 6

Lab 9

1: Team Number

Team Number 12-9

2: Team Name

JAM

3: Team Members

Mia Ray, Jessie Hsu, Jules Novoa, Julia Aronow, Makaela Fauber

4: Application Name

Buffs Bulletin

5: Application Description

Our application, Buffs Bulletin, will be a CU event-based scheduler for students. Our application will consist primarily of an interactive map where students can create, view, rate, comment on, and RSVP to events on campus. Students will be able to create different types of accounts (coordinator, attendee), which will be able to create and view events (respectively). Features on the map include the ability to click on and view an event, RSVP to an event, rate an event, comment on events, search for events, and see other participants at an event that they have rsvp'd to. In addition to the map, the application will have a 'user profile' page where users can send friend requests, update their user information, and logout.

Coordinator accounts should be linked to a specific group or club on campus, and each club should have a limited number of coordinators. This allows users to sort events by club, and prevents spam of coordinator accounts.

Users should be able to filter events by time, showing events in a specific time frame or period. Users should be able to hide the map, replacing it with a list of events. Coordinators (club leaders, etc) should be able to create events (including time, location, and description) and add them to the map. Participants cannot create or delete events, only RSVP to/comment/rate events, which causes events to appear on a custom map (my events) that users can toggle.

Time allowing, users should be able to send friend requests to other users, allowing them to view the 'my events' map for their friends' profiles.

Major Functionalities:

- An interactive map which can be scrolled, zoomed, and altered to add pins corresponding to events. (Mapbox?)
- Different types of users have different access to events

    - Event Leaders can create/delete events and add to/remove from the map
    - Event Participants can rate events, add notes, RSVP, and see all their events
    - Event Participants are able to view other participants who have RSVP'd to the same events that they have.
- Specify specific time frames/locations to filter and organize events
    - Event participants are able to filter events to avoid schedule conflicts.
    - Participants are able to search for events by name/host/club
- Participants are able to view/toggle a specific map of just their events, where events that they haven't RSVP'd to are hidden.
    - Participants should be able to export their events to other apps (?)
- Participants are able to send friend requests to each other, which changes the filter to see their friends' events
    - Participants are able to send and approve friend requests
    - Participants are able to see the 'my events' map for their friends.

6: Audience

CU undergrad students, Club Leaders, Club Attendees, Students who would like to get more involved on campus.

7: Vision Statement

Buff's Bulletin is for CU students and organizers who need a better way to advertise events, or find events to attend on campus. This CU Boulder specific map uses the Mapbox API for a seamless experience. Unlike the campus map or Google maps, campus events can be shown all in one place. Instead of a bunch of hyperlinks to locations, users can simply pull up the map and see the events going on on a list and on a map.

8: Version Control

https://github.com/miaraygithub/software-dev-group-12-9.git

9: Development Methodology

We will use the agile methodology. Each week/sprint, we will **plan** the features/developments that we would like to complete in that given week, and as a team we will **design** these features together (during group meetings). Then, on our own each week, we will **develop** and **test** the features that we have been assigned, and make notes of any issues or problems that arise. In the next meeting, we will begin by going over our **deployment** and **review** the progress we have made so far, which should inform planning for the next week/sprint.

10: Communication Plan

We will communicate using the tool ‘Discord’. All of us are on a single server, and we will use this as the primary method of discussing the project. In case of emergencies (needing to get in contact with someone urgently), we all have each other's phone numbers and can reach each other via those.

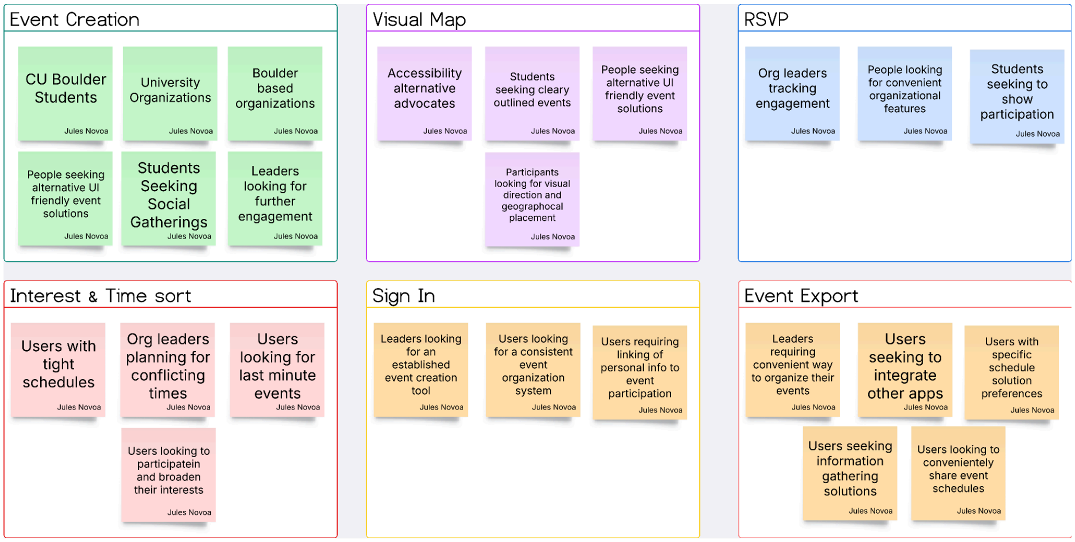
11: Meeting Plan

Team Meetings: We will meet with each other weekly on Tuesdays at 6:30 via Discord calls. This will allow us to share our screens and collaborate easily.
TA Meetings: We will meet with our TA Disha weekly on Wednesdays at 5PM via zoom (on Disha’s Office Hours) to complete our SCRUM meetings.

12: Use Case Diagram

6 key features:

- Student and organizer driven event creation
- Visual map placement
- RSVP
- Sort by interest and times
- Export rsvp’d events
- Buff sign in
- Friend list function



Event Creation

CU Boulder Students
Jules Novoa

University Organizations
Jules Novoa

Boulder based organizations
Jules Novoa

People seeking alternative UI friendly event solutions
Jules Novoa

Students Seeking Social Gatherings
Jules Novoa

Leaders looking for further engagement
Jules Novoa

Visual Map

Accessibility alternative advocates
Jules Novoa

Students seeking cleary outlined events
Jules Novoa

People seeking alternative UI friendly event solutions
Jules Novoa

Participants looking for visual direction and geographocal placement
Jules Novoa

RSVP

Org leaders tracking engagement
Jules Novoa

People looking for convenient organizational features
Jules Novoa

Students seeking to show participation
Jules Novoa

Interest & Time sort

Users with tight schedules
Jules Novoa

Org leaders planning for conflicting times
Jules Novoa

Users looking for last minute events
Jules Novoa

Users looking to participatein and broaden their interests
Jules Novoa

Sign In

Leaders looking for an established event creation tool
Jules Novoa

Users looking for a consistent event organization system
Jules Novoa

Users requiring linking of personal info to event participation
Jules Novoa

Event Export

Leaders requiring convenient way to organize their events
Jules Novoa

Users seeking to integrate other apps
Jules Novoa

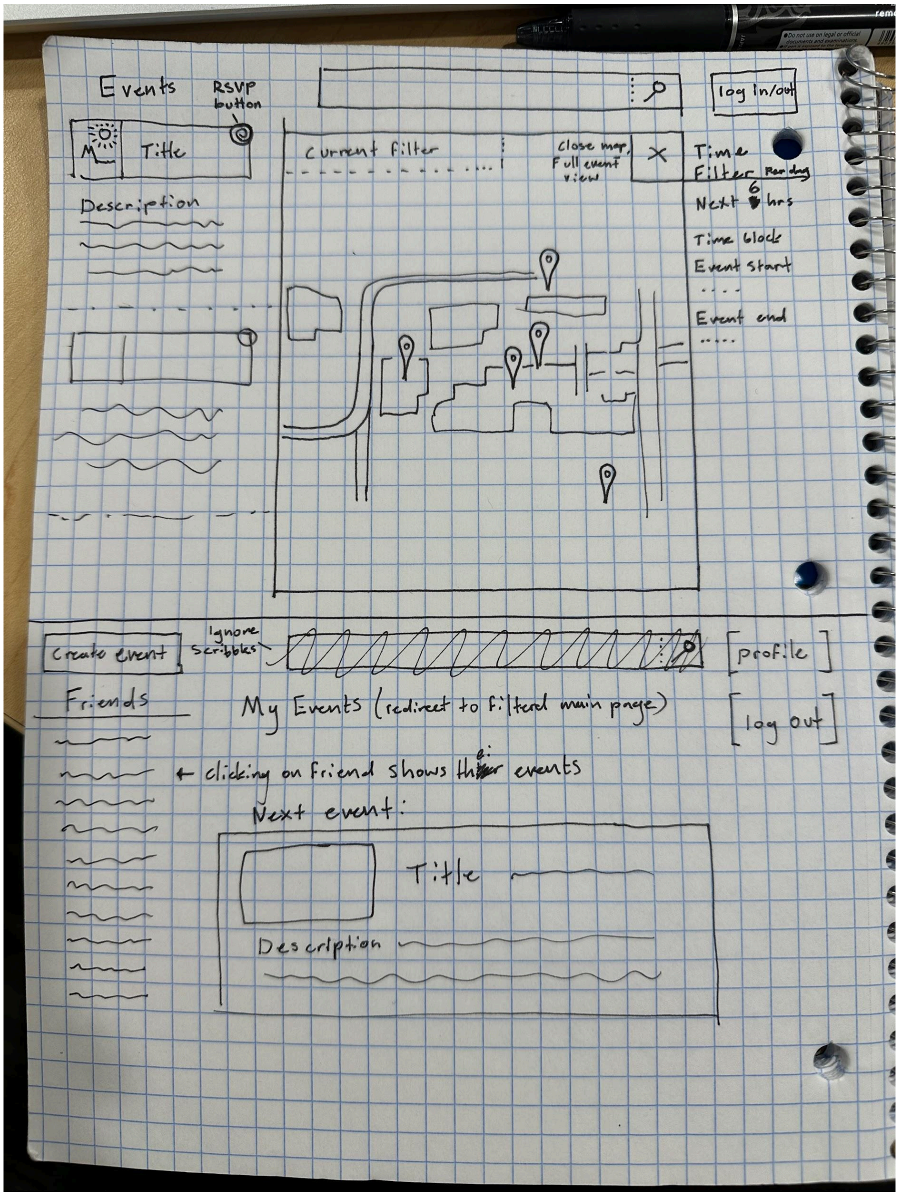
Users with specific schedule solution preferences
Jules Novoa

Users seeking information gathering solutions
Jules Novoa

Users looking to conveniently share event schedules
Jules Novoa

https://lucid.app/lucidspark/77cac97d-432f-4a93-94cc-52fe1e10742f/edit?invitationId=inv_2dc3d80a-c5bc-4cb0-9c41-a09327909445
(Link for editing)

13: Wireframes:


Events
RSVP button
log In/out
Title
Current filter
Close map, Full event view
×
Time Filter
Next 6 hrs
Time block
Event start
Event end
Description
Create event
Ignore scribbles
profile
log out
Friends
My Events (redirect to filtered main page)
← clicking on friend shows their events
Next event:
Title
Description