

Milestone 1 WDC: PG001 Enjoyable-Turns-Super

2023 S1

Web and Database Computing S1

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Research

Some current websites and apps with similar functionalities and features, that would make excellent examples for a platform for student clubs are the following:

Example 1:

Meetup is a website and mobile app that lets people establish and join groups based on a variety of activities and interests. Meetup offers member profiles, forums for conversation, and event administration. Users can find groups using the platform's efficient search tool by entering various parameters.

Link: <https://www.meetup.com/en-AU/>

The screenshot shows the Meetup homepage. At the top, there is a navigation bar with the Meetup logo, language selection (English (Australia)), a Log in button, and a Sign up button. Below the navigation bar is a large, semi-transparent circular graphic. The main banner features the text "The people platform—Where interests become friendships" and a subtext about finding friends through various interests like hiking and networking. It includes a small illustration of a computer monitor displaying a grid of icons representing different interests. Below the banner are three smaller images with calls to action: "Make new friends →", "Explore the outdoors →", and "Connect over tech →". At the bottom of the page, there is a row of buttons for "Boost your career", "Find your zen", "Get moving", "Share language + culture", "Read with friends", "Write together", and "Hone your craft". The Meetup logo is also present at the bottom left.

This screenshot is identical to the one above, but it features a prominent red rectangular box highlighting the central "The people platform—Where interests become friendships" banner area. The rest of the page content, including the navigation bar, circular graphic, and other sections, remains visible.

- Very sleek/clean overall design, easy for the reader to see all the elements, and doesn't feel cluttered.
- Description of the goals of the website clearly displayed in the center of the website, in clear view for the user. May be useful to have a clear mission statement on the club platform.



- Language options, login, and signup in the accustomed top right hand corner.
- This makes it easy for users to immediately identify where they can login/signup as well as change the language options for the website. Many international students attend university, many may want to join a club. Language options would be extremely helpful.
- Login and signup are in close proximity to each other, as well as close to the edge of the screen; lowering kinematic load.



- Descriptive quick links to a page with groups/events relevant to the description.
- Descriptive images that are indicative of the groups/events found through that link, allowing users to get an idea of where the link will bring them before they read the description.



- Descriptive tags to allow quick navigation relevant groups/events. These provide a quick way to navigate to parts of the website most relevant to someone who relates to the tag descriptions.
- Tags are in close proximity, but well spaced out so that they are easy to mouse over.

What do you want to do?

Search for "tennis"

Neighborhood or City or zip

Search

- Search bar which allows for both search terms relevant to finding groups/events, as well as a separate search bar for location; allowing users to filter groups/events via geolocation.
- Search bars also have explicit details and examples of what would be valid search terms for each input text field (eg. “tennis” or “Neighborhood”).

Cons:

The screenshot shows the Meetup website homepage. At the top right, there are links for "English (Australia)", "Log in", and "Sign up". Below the header, there's a large graphic with the text "The people platform—Where interests become friendships" and three small images: a person on a beach, a person climbing a rock, and two people working on laptops. Below this, there are three main calls-to-action: "Make new friends →", "Explore the outdoors →", and "Connect over tech →". Underneath these are several smaller buttons: "Boost your career", "Find your zen", "Get moving", "Share language + culture", "Read with friends", "Write together", and "Hone your craft". At the very bottom, there's a red-bordered box containing the search interface from the previous image, with the text "What do you want to do?", two search input fields, and a large red "Search" button.

- Search bar placed towards the bottom of the website. Users may be more accustomed to the search bar being either front and center or at the top and in the middle.

Popular groups

[Explore more groups](#)



New Group
New Sydney Free Acting Group

SAT, MAY 6 · 13:30 ACST
Outdoor Acting in Camperdown Memorial Rest Park



Pickleball NSW

FRI, MAY 5 · 17:00 ACST
Bateau Bay Pickleball Competitive Friday evening Play



Macarthur Social Group

SAT, MAY 6 · 11:30 ACST
Robertson Potato Festival

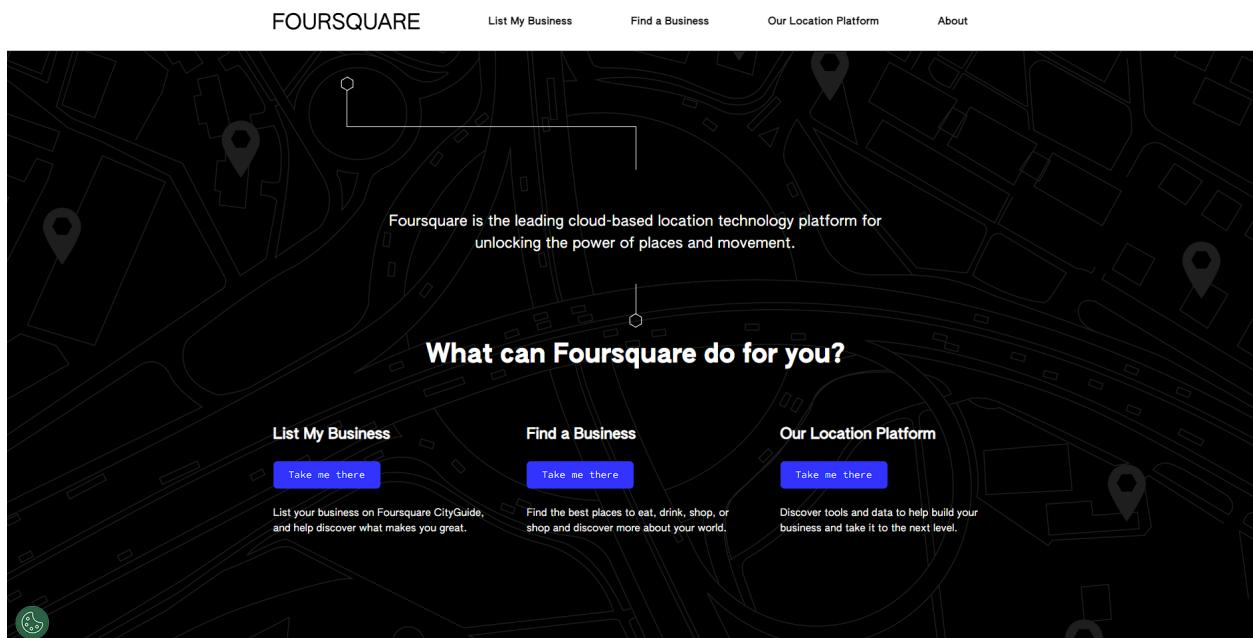
>

- This “popular groups” card carousel is found towards the bottom of the page, outside the default viewport of the user when they first enter the home page. Popular groups may be an important category for users, who may miss it if they don’t immediately see it.

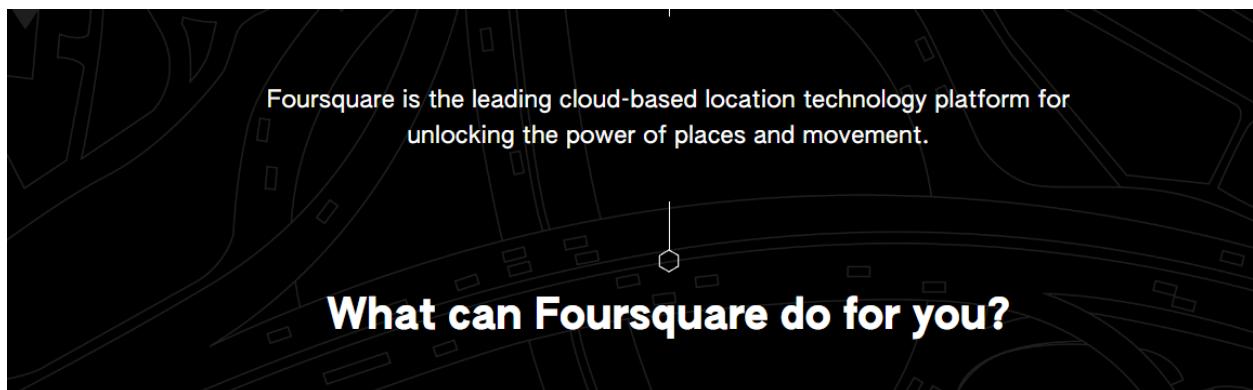
Example 2:

FourSquare is a website which allows clients and businesses to find each other. FourSquare allows businesses to list their business on the website, detailing what services they provide (restaurant, shopping, entertainment) and their location. Clients are able to look through all the businesses listed, filtered by their location and proximity to the client, and what service the client is looking for. This concept could also be mostly applied to a website for finding groups and events.

Link: <https://foursquare.com/>



Pros:



- A short and concise description is provided to the user, front and center, as soon as they access the FourSquare main page. Users know exactly what this platform does.

List My Business

Take me there

List your business on Foursquare CityGuide, and help discover what makes you great.

Find a Business

Take me there

Find the best places to eat, drink, shop, or shop and discover more about your world.

Our Location Platform

Take me there

Discover tools and data to help build your business and take it to the next level.

- Clearly displayed tags with concise and detailed descriptions, which provide easy and quick navigation to parts of the website that are relevant to whatever the user is looking for. Could adapt this so users of the club platform can quickly access the functionality they are interested in (finding a club, creating a club, seeing events posted by their clubs).



- Allow users to customize their cookie preferences if they wish. This may be important to users that are more familiar with web apps or have security concerns and is a nice feature to have.

Find a Business

Take me there

Find the best places to eat, drink, shop, or shop and discover more about your world.

FOURSQUARE

Find the best places to eat, drink, shop, or visit in any city in the world. Access over 75 million short tips from local experts.

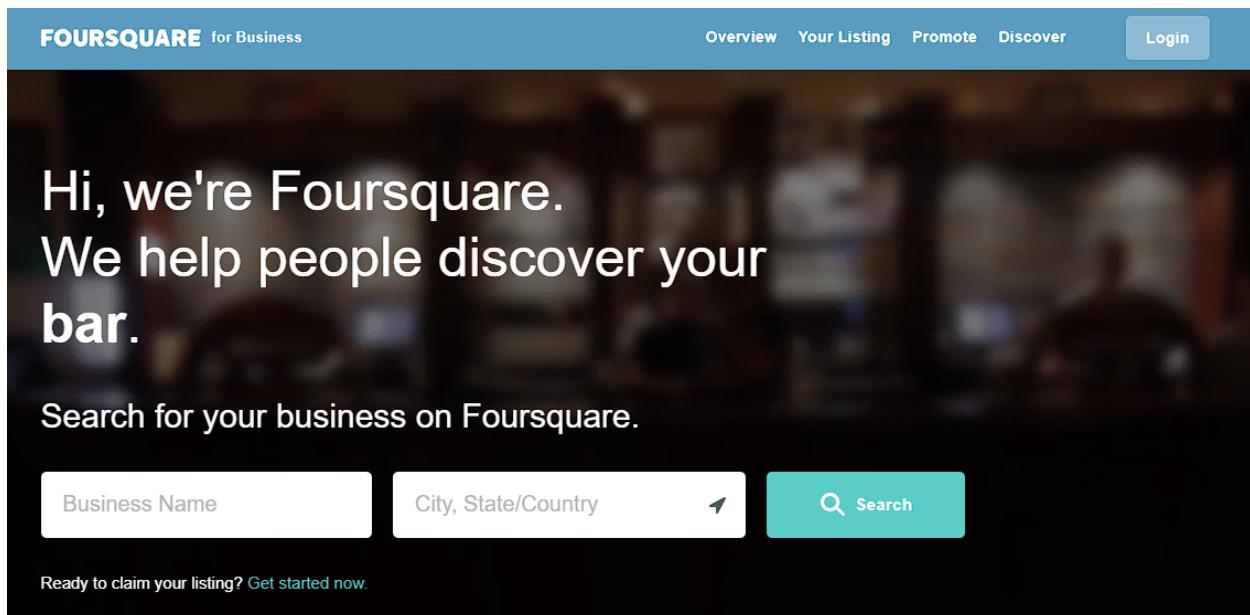
I'm looking for... ▾

Adelaide

Search

Food	Coffee	Nightlife	Fun	Shopping

- Clicking the above “Take me there” button will bring a user to the page with a clear description of the goal of this page.
- At the center of the page; one search field for the user to input what type of business they are looking for. This makes the intent of the page very apparent to the user. Another search field for the user to specify the general location of the business (defaulted to the user’s current general location).
- The website also has quick link buttons with popular search categories for users, allowing users to quickly find “food”, “coffee”, etc. Could be used in a university club platform to get a list of clubs related to a specific topic quickly (eg. STEM, arts, etc).

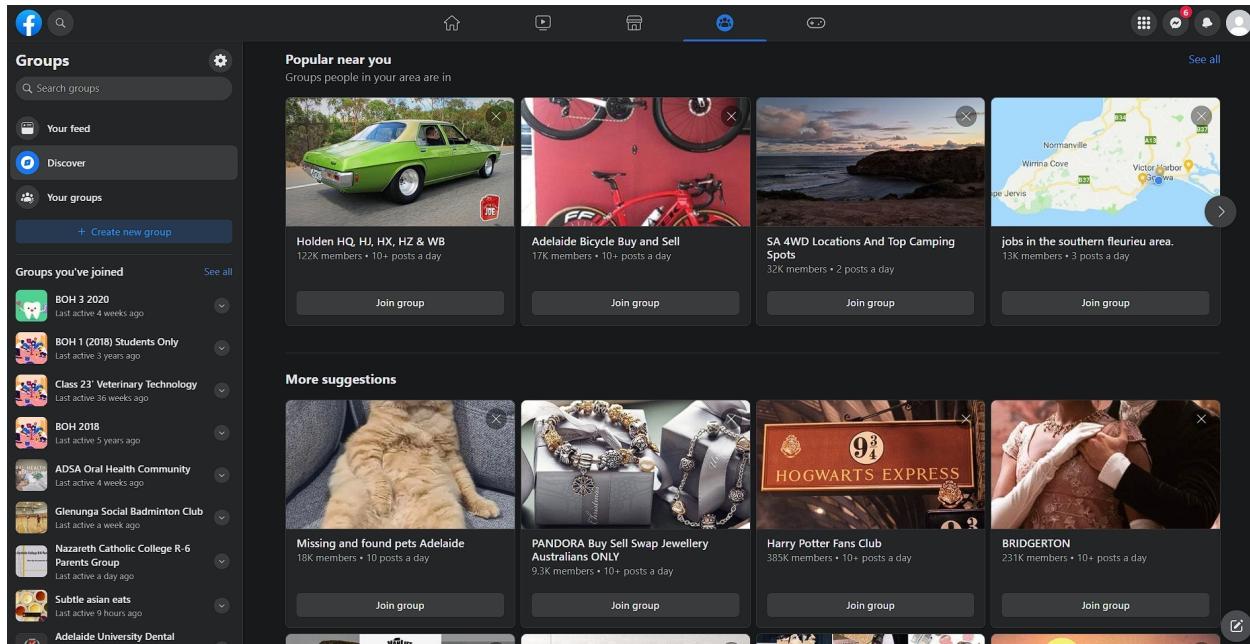


- Businesses are able to sign up and list their business, making them available to appear for clients searching for such businesses using the FourSquare web app.
- Users are also able to list businesses, like restaurants they have been to, hence business owners are able to claim an already made listing as their business.
- May be better to separate club managers and club members, allowing club managers to have access to a page like this, which is specific to the functionality they are looking to access (create a club, manage their club, etc).

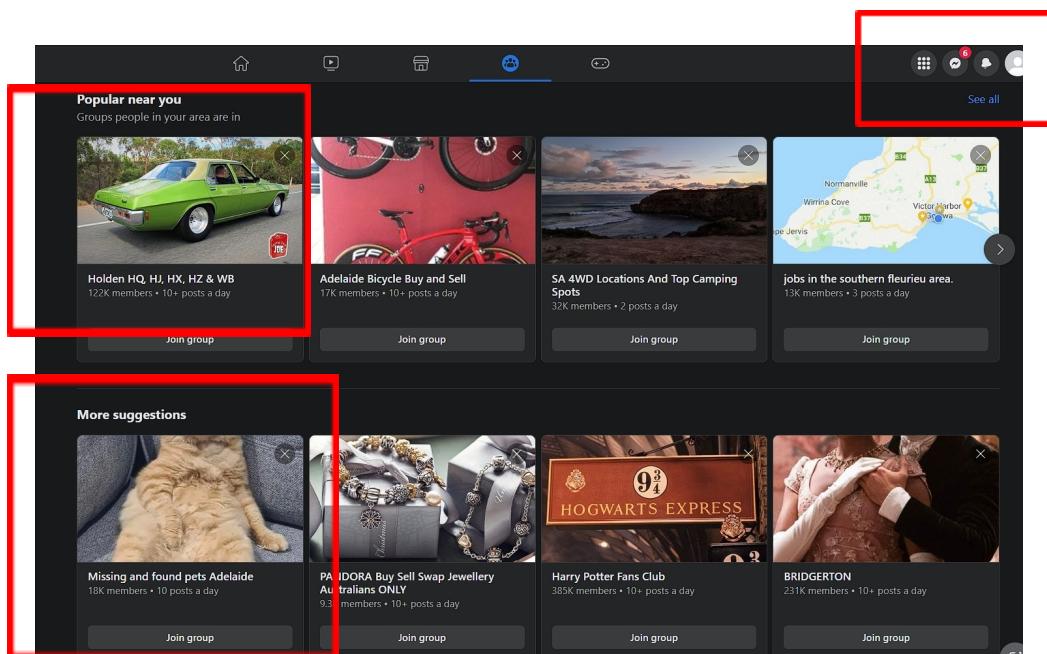
Example 3:

Facebook Groups is a feature that enables users to form and join groups based on a variety of hobbies and themes. Similar services to those offered by Meetup, such as event management, discussion forums, member profiles, etc. Its search capabilities might be enhanced, though, to make it simpler to locate pertinent groups.

Link: <https://www.facebook.com/groups/discover/>



Pros:



- Login and profile located in the accustomed top right position. Also as this website is part of Facebook, it has Facebook's other features like messenger already integrated and ready for the user to use to contact groups.
- Has a separate and clearly labeled section (“Popular near you”) for popular groups that are close to the user's location.
- Has a separate and clearly labeled section (“More suggestions”) for groups that may be more inline with the user's interests.

Groups

Search groups

Your feed

Discover

Your groups

+ Create new group

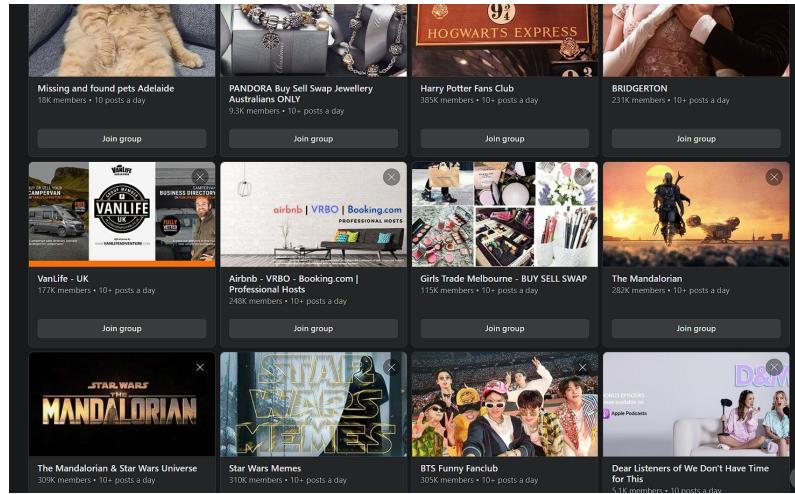
Groups you've joined

See all

	BOH 3 2020	Last active 4 weeks ago	
	BOH 1 (2018) Students Only	Last active 3 years ago	
	Class 23' Veterinary Technology	Last active 36 weeks ago	
	BOH 2018	Last active 5 years ago	
	ADSA Oral Health Community	Last active 4 weeks ago	
	Glenunga Social Badminton Club	Last active a week ago	

- Clearly displays the groups that the user is currently a part of as well as the last time anyone in the group was active.
- Also immediately presents the user with a way to easily search for specific groups as well as create their own group.

Cons:

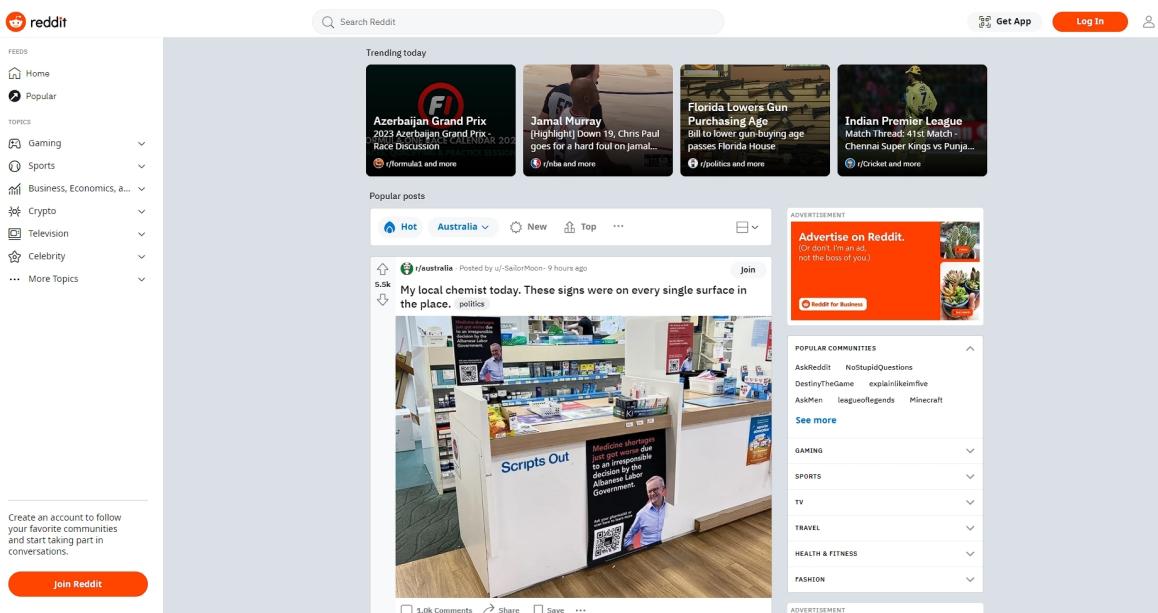


- When looking through the potential groups list, many clubs are displayed at once, some users may find this experience overwhelming. May want to display less groups, or sort groups into categories and display those categories first.

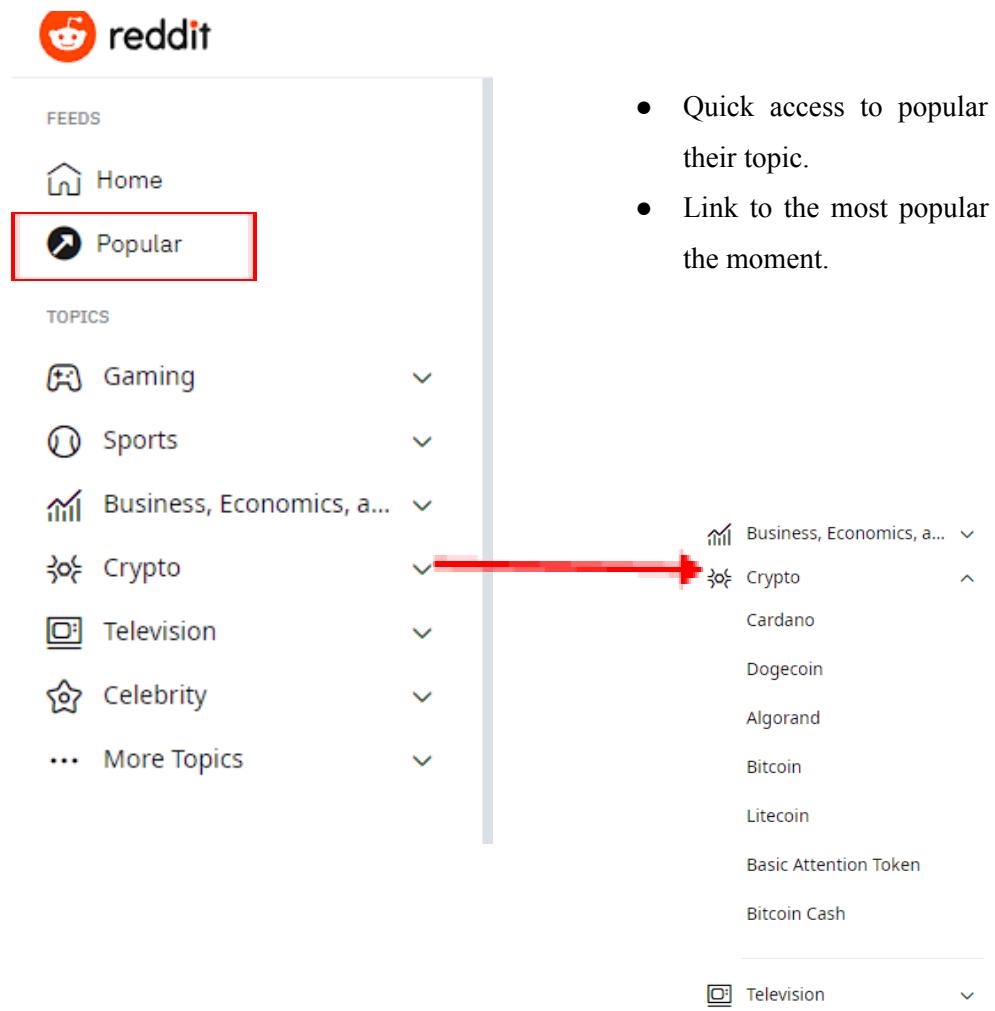
Example 4:

Reddit is a popular discussion board, aggregating content specific to a certain category in smaller groups called subreddits. Reddit allows users to create subreddits, allowing other users to join these subreddits like clubs and post content on these subreddits relevant to the subreddit. These subreddits function as individual groups and are moderated by select users. Each subreddit has its own feed of content, much like “events” of a group in a University club web app.

Link: <https://www.reddit.com/>



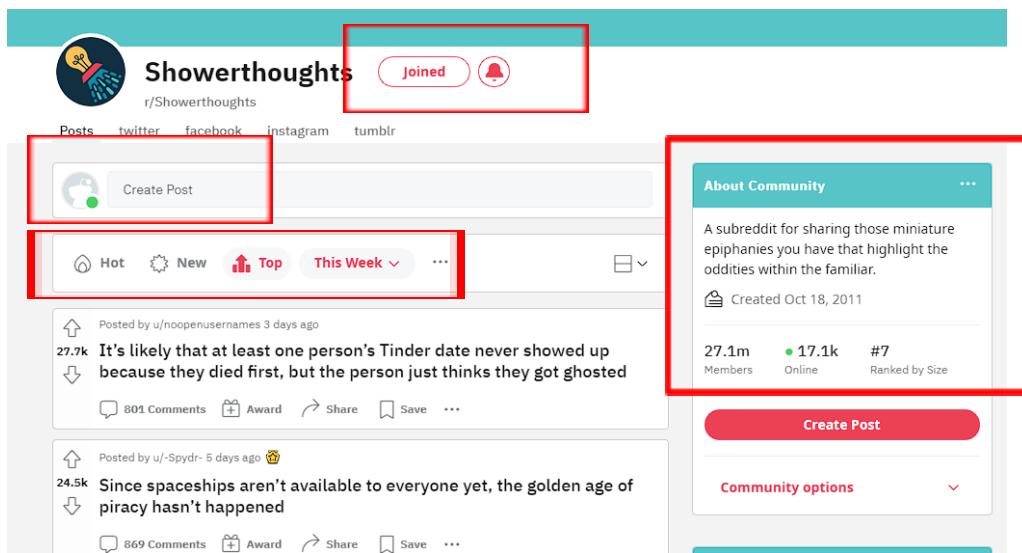
Pros:



The screenshot shows the Reddit homepage. At the top, there's a navigation bar with 'FEEDS', 'Home', and a red-bordered 'Popular' button. Below this is a 'TOPICS' section with a dropdown menu. The menu items include 'Gaming', 'Sports', 'Business, Economics, a...', 'Crypto', 'Television', 'Celebrity', and 'More Topics'. A red arrow points from the 'Business, Economics, a...' item to the 'Crypto' item in the dropdown. To the right of the dropdown, there's a list of subreddits under 'Crypto': Cardano, Dogecoin, Algorand, Bitcoin, Litecoin, Basic Attention Token, and Bitcoin Cash. At the bottom of the screenshot, there's a 'Television' dropdown.

- Quick access to popular subreddits, sorted by their topic.
- Link to the most popular groups (subreddits) at the moment.

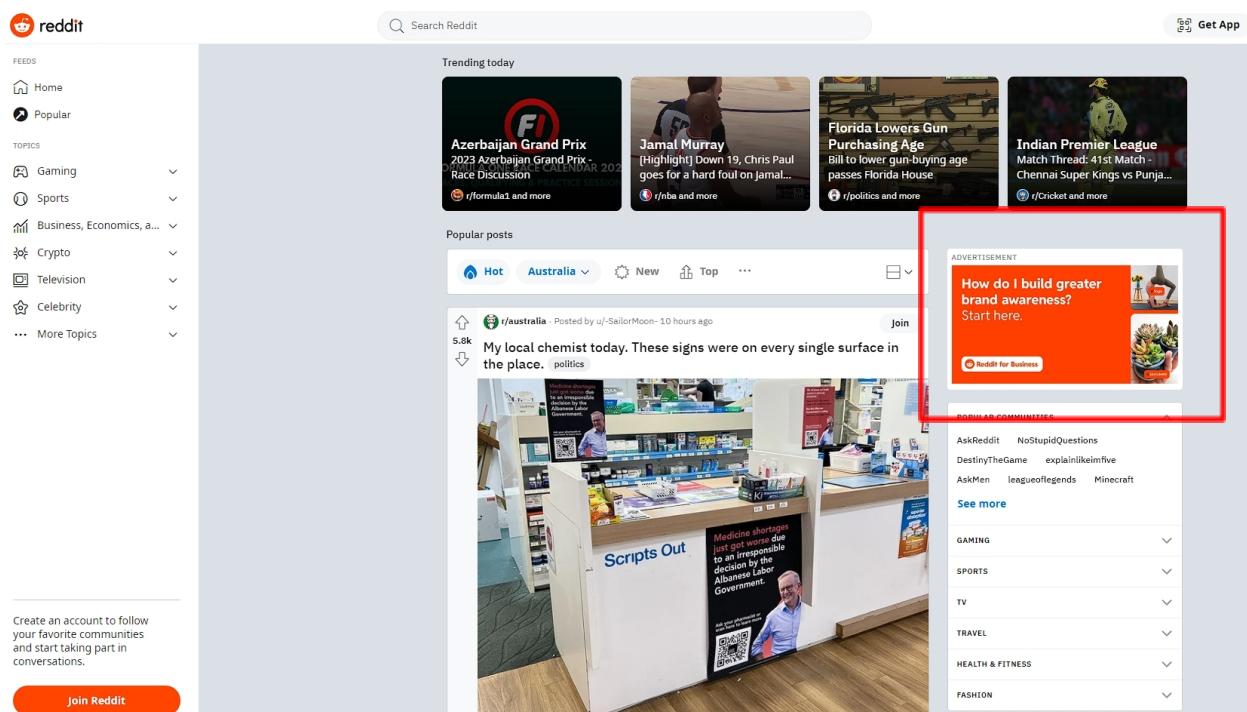
- Drop down menu showing all the subreddits that are related to that broad topic, allowing users easy navigation to their specific interest.



The screenshot shows the r/Showerthoughts subreddit page. At the top, there's a header with the subreddit name 'Showerthoughts' and a 'Joined' button. Below the header, there are social media links for Posts, twitter, facebook, instagram, and tumblr. A red box highlights the 'Create Post' button. Below this is a navigation bar with 'Hot', 'New', 'Top', 'This Week', and other options. Another red box highlights the 'Top' button. On the right side, there's an 'About Community' sidebar with the following text:
A subreddit for sharing those miniature epiphanies you have that highlight the oddities within the familiar.
Created Oct 18, 2011
27.1m Members • 17.1k Online #7 Ranked by Size
A red box highlights the 'About Community' sidebar. At the bottom of the sidebar, there's a 'Create Post' button and a 'Community options' dropdown.

- Each subreddit allows users to join and specify whether they want notifications from whenever posts are made using the small bell icon.
- The right side has a brief description of what this subreddit is about and what users can find there. Also has a count of the total members and currently online members.
- Close to the top of the page and in the center, there is a clearly visible input form which allows users to make a post on the subreddit.
- Also has a variety of options, clearly displayed, for users to filter posts based on “Hot” (most traffic in the last 24 hours), “New” (most recently created posts), and “Top” (posts with the most up-votes). The “Top” parameter also allows users to specify over what time period they would like to filter for the top post.

Cons:



- Reddit presents a lot of information to the user on the front page. Some users may find this overwhelming. There are also many drop down lists which hide information that a user may be looking for, making it less efficient to find certain subreddits.
- Advertisements are also often featured throughout reddit webpages, which may be a nuisance or annoying to users.

Our design took inspiration from all of the sites listed above. The points in particular that we would take note of where the following:

1. Meetup:

- a. A design that is simple and not cluttered. This will reduce cognitive load as we aren't overwhelming a user with information.
- b. Login and sign up functionality located in top right (which is the standard for almost all websites). This reduces cognitive load and users know exactly where to find the login and sign up buttons, as well as reduces kinematic load as these buttons are close to the border of the screen.

2. Foursquare:

- a. Navigation options are obvious so that when you navigate to another page you aren't guessing what the content will be. This is a clear example of reducing cognitive load.

3. Facebook:

- a. The main navigation menu is situated on the left side of the screen and remains in this position even when scrolling through the other content. This will reduce kinematic and cognitive load as the user does not need to constantly seek out the navigation menu if they are scrolling.
- b. One thing we want to avoid is the overwhelming nature that is present on the Facebook groups page. They are a grid layout which means the focus might not be on each group. We would want the user to pay attention to each club/post as they view it. In this case we will stick with a central column for clubs/posts, to try and decrease cognitive load.

4. Reddit:

- a. As per Facebook, Reddit also has the left hand menu that stays in position. We will emulate this in our design.
- b. The singular central column where the user scrolls to see posts we will also emulate for our main content serving pages (clubs, posts and events). This is a staple design for news type feeds, used in many popular websites. This should provide the user with a familiar experience and decrease cognitive load.
- c. Reddit uses filters at the top in a central position. Clearly visible to the user as soon as they enter the page. This decreases cognitive load as it is immediately apparent how to filter posts. Kinematic load is also decreased by having the filters close by to each other, however spaced out enough that it isn't difficult to mouse over just a single filter option.

Basic Design

When designing our site we decide that it would be split into several different pages:

1. Login/Account Creation Page
2. News Feed
3. Events
4. Clubs
5. Profile
6. Notification Settings (We at this stage are assuming we will be using notifications, we have not designed this yet but the concept would be a toggle for notification at all. Then if yes you can pick which clubs you receive notifications for. Then for those clubs if you receive notifications for posts or events or both)
7. Manage Users
8. Manage Clubs

We will also be aiming to make our site display well on mobile/tablet devices. We chose quite a high break point of ~800px initially as we want to make sure the elements are nicely sized.

Outside of that display change generally we will be making our elements stretch horizontally to fit the screen and we will be capping the main width of our site to ~1900px. If someone is using an ultrawide monitor we don't want it to look comical.

We are aiming for a consistent feel throughout the site via using a consistent font, color scheme and placement of elements. We want to make sure this feels cohesive and that as you move between pages you aren't having to relearn how to use the site. This will lead to a low cognitive load we hope.

Generally to decrease kinematic load we are focusing on large buttons/inputs for interaction with the site. Where we can we have added extra padding around elements so a user still has to be accurate with their clicks but they do have wiggle room to click just outside of an element and the action will still occur.

In terms of accessibility we will use title and alt attributes where we can. We also aim to use the HTML tags that best represent the content on our page. Eg. *nav* for navigation areas, *article* for our posts and *main* for the main content of our page. That is only a small number of ones we chose in particular.

We got some of our friends external to this course to review. We did this rather than internal to this course for a few reasons:

1. Make sure someone does review our designs
2. They wouldn't have the background knowledge of what this is for. They would be the true representation of a user coming to this site for the first time
3. Broader range of people as they aren't necessarily in the software area.

Login/Account Creation

The page displayed in **Figure 1**, serves as the sign in page and is the first page displayed to the user when they start using Cluber. Users have the option to sign in with their pre-existing Google account or with an account they have made through Cluber.

Users may also continue onto the main Cluber platform by clicking the “continue to site” button in the top right of the screen. If a user does not have an account and wishes to make an account with Cluber, they can press the “click here” link, which will bring them to the account creation page.

This initial page is designed to be very simple and concise, set up in a familiar format that almost all users would be familiar with. Elements are well spaced apart to allow easy mouser over, but not too far apart that it negatively impacts kinematic load. Almost all users would have a Google account and so we provide the option so they can skip any unnecessary account creation (reduce both cognitive and kinematic load), giving them the option to just sign in with their pre-existing Google account.

Figure 1: Sign In Page (Desktop)

The screenshot shows the Cluber sign-in page. At the top, there's a blue header bar with the word "CLUBER" in white. To the right of the header is a "Continue to site" link. Below the header, there are three main interactive elements:

- 1: Allows for sign in via Google (And Others)**: A "Sign in with Google" button featuring the Google logo.
- 2: Button to turn page into account creation.**: A large black "SUBMIT" button at the bottom of the form.
- 3. Enter site without login**: A "USERNAME" input field above a "PASSWORD" input field, separated by a horizontal line with the word "OR" in the center.

At the bottom left, there's a link: "Don't have an account? [Click here](#)".

Figure 2: Sign In (Mobile)



The image shows a mobile sign-in form for a service called CLUBER. At the top left is the CLUBER logo in white text on a blue background. To its right is a link "Continue to site". Below the logo is a large button with the Google "G" icon and the text "Sign in with Google". A horizontal line with the word "or" in the center separates this from the next section. The next section contains two input fields: one labeled "USERNAME" and another labeled "PASSWORD", both represented by empty rectangular boxes. At the bottom is a large, dark gray "SUBMIT" button with white text. Below the entire form is a link "Don't have an account? Click here".

CLUBER Continue to site

 Sign in with Google

————— or ————

USERNAME

PASSWORD

SUBMIT

Don't have an account? [Click here](#)

The account creation page, shown in **Figure 3**, allows users to create an account with Cluber. The page contains only the necessary elements to create an account so users know exactly what they are required to do. This page requires the user to confirm their email and password, reducing the likelihood that the user mistypes something and does not notice. Like the login page from **Figure 1**, this page still provides the option to sign up with their google account, allowing the user to do so if they change their mind. At the bottom of this account creation page is a link (“Click here”) to go back to the sign in page; in case a user accidentally enters this page or remembers they already have an account.

Figure 3: Account Creation (Desktop)

CLUBER

Allow user to input their details to create an account.

Sign up with Google

or

EMAIL ADDRESS

CONFIRM EMAIL ADDRESS

PASSWORD

Allow user to exit this page if they already have an account.

CREATE USER

Already have an account? [Click here](#)

Figure 4: Account Creation (Mobile)

The image shows a mobile account creation form. At the top, there is a blue header bar with the word "CLUBER" in white. To the right of the header is a "Continue to site" link. Below the header is a "Sign in with Google" button, which features the Google logo and the text "Sign in with Google". A horizontal line with the word "or" in the center follows. The next section is labeled "EMAIL ADDRESS" with an empty input field below it. The next section is labeled "CONFIRM EMAIL ADDRESS" with an empty input field below it. The next section is labeled "PASSWORD" with an empty input field below it. The next section is labeled "CONFIRM PASSWORD" with an empty input field below it. At the bottom is a large, dark blue "SUBMIT" button.

Don't have an account? [Click here](#)

Feedback we received:

1. “Continue to site button is ‘ugly’
2. Account creation fields shouldn’t be side by side

We will take both of those into account when we build the site as we think they are valid.

We focused on our login/sign up page being minimal. We don’t want to overload a user with information and it should be simple to either login or sign up.

We are keeping our fields that require information and/or buttons of large size

Feed/Events/Clubs

Our three main content pages we decide to share a similar look as it will mean a user isn't having to learn a new page as they move between areas and can learn the site quickly, which will reduce cognitive load. A possible downside is they will forget where they are on the site but we will attempt to avoid this by using particular distinguishing features (e.g. color, variation in the values of our filters and highlighting in the menu to remind them where they are).

We will reduce kinematic load by having a navigation menu situated on the edge of the screen. It will always be on the left no matter where you are on the site and we ensure the navigation buttons are clear and clearly identifiable. Navigation buttons will be large and clearly recognisable via a symbol and label.

Our site revolves around posts. A post is either purely a post or it can be an event. The events/news feed pages display the posts as cards and each has the same styling. The only difference generally is the worded content and the colour which depends on the club. This colour will help to distinguish posts between clubs more easily but the club name is also provided.

Clubs Page

This page will display all clubs in the system. A user can click on a club card to enter a club and view that club's posts/events. On the club page in the top right we will have a create post button used by club managers to create posts. See the Manager users and clubs pages for how those modals will look generally.

Indicates how many people follows this club

Filter clubs by ones the users follows or not

all clubs

all tags

Filter clubs by category (Eg. Sport, Faculty etc)

20 followers

Club Name

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Tech

Side navigation, indicates which page you are on

20 followers

Club Name

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Tech

20 followers

Club Name

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Tech

Mobile version of Browse Clubs page

The image shows a mobile device screen displaying a club profile. At the top, there's a blue header bar with a yellow square containing the text "Hamburger reveals navigation" and a yellow arrow pointing right. Below the header, there are two dropdown menus: "all clubs" and "all tags". The main content area has a green header bar with the text "20 followers". Below this, the club's name "Club Name" is displayed in large bold letters. A long block of placeholder text (Lorem ipsum) follows. At the bottom of the card, there's a blue button labeled "Tech".

Hamburger reveals navigation

all clubs ▾ all tags ▾

20 followers

Club Name

Lore ipsum dolor sit amet
consectetur adipisicing elit. Harum
officiis sint, doloremque fugiat quia
consequatur rem voluptatem
aspernatur consectetur molestiae
accusantium itaque explicabo,
commodi dolor corporis sunt placeat
voluptates. Corporis? Lore ipsum
dolor, sit amet consectetur
adipisicing elit. Mollitia facere optio
nulla consectetur iste recusandae
quasi nisi, sit amet repellendus
molestiae quis ut eos soluta hic
ipsum ducimus, veritatis quos. Lore
ipsum dolor, sit amet consectetur
adipisicing elit. Mollitia facere optio
nulla consectetur iste recusandae
quasi nisi, sit amet repellendus
molestiae quis ut eos soluta hic
ipsum ducimus, veritatis quos.

Tech

Feed Page

This page shows the most recent posts/events from clubs. If a user is logged in it will show only updates from clubs they follow. This page provides the user with the functionality to filter/sort their feed, allowing them to filter by specific club or whether the feed displays only posts or events. Filtering is done through the use of dropdown menus, a common method for filtering used by many other websites/webapps.

Post items are designed to be spaced out and independent so the user can easily differentiate individual posts, reducing cognitive load. Posts are condensed so that no single post takes up too much of the screen, users can expand a post to see the rest of the content by pressing “view more”.

This page also allows users to RSVP to an event shown on their feed by pressing one of the icons and the number of new post/events on the users feed is indicated on the left-hand side navigation bar element “news feed”. Additionally, posts that the user has not interacted with before will be tagged “new”. This immediately tells the user which posts they have and haven’t seen before.

The screenshot illustrates the Clubber app's Feed Page. On the left, a vertical navigation bar lists "NEWS FEED" (with a 99+ badge), "MY EVENTS", "BROWSE CLUBS", "MY PROFILE", "NOTIFICATION SETTINGS", "MANAGE USERS", and "MANAGE CLUBS". The main area shows three posts from "Club A".

- Post 1:** "Post Title!" (Thu Apr 13 2023 17:39:14). Includes a "View more" link. Annotations: "Will show how many unread posts the user has" (points to badge), "Can filter by specific clubs" (points to dropdown), "Can filter by posts or events" (points to dropdown).
- Post 2:** "Event Title!" (Thu Apr 13 2023 17:39:14, When: Thu Apr 13 2023 17:39:14, Where: Pub). Includes a "Post" button and three interaction icons (checkmark, question mark, X). Annotations: "Can reveal or hide post content if the post is long" (points to "View more" link), "Shows if a user has read the post or not" (points to interaction icons), "Can RSVP to events" (points to "Post" button).
- Post 3:** "Post Title!" (Thu Apr 13 2023 17:39:14). Annotations: "Date post was made" (points to date), "Post Title!" (points to title), "Shows if a user has read the post or not" (points to interaction icons).

Mobile version of News Feed

CLUBER ≡

all clubs ▼ all tags ▼

Club A NEW

Thu Apr 13 2023 17:39:14

Post Title!

Lorem ipsum dolor sit amet
consectetur adipisicing elit. Harum
officiis sint, doloremque fugiat quia
consequatur rem voluptatem...

[View more](#) Post

Thu Apr 13 2023 17:39:14 NEW

Event Title!

When: Thu Apr 13 2023 17:39:14

Where: Pub

✓ ? ✗

Lorem ipsum dolor sit amet
consectetur adipisicing elit. Harum
officiis sint, doloremq fugiat quia
consequatur rem voluptatem as...

[View more](#) public

Club A

Thu Apr 13 2023 17:39:14

Post Title!

Lorem ipsum dolor sit amet
consectetur adipisicing elit. Harum
officiis sint, doloremque fugiat quia
consequatur rem voluptatem...

[View more](#) Post

Events Page

This page functions much like the news feed, however only displaying events. If a user is logged in, by default, this page will only show events they have not RSVP'd to yet. Events are displayed just like they are on the user's "news feed, with additional event details, like where and when the event will take place. Like the news feed, users can filter by specific club or by whether the event is private or public. Users can also RSVP to events from this page by clicking one of the three RSVP icons in the middle of each event item.

The screenshot shows the CLUBER app's Events Page. On the left is a vertical sidebar with navigation links: NEWS FEED, MY EVENTS, BROWSE CLUBS, MY PROFILE, NOTIFICATION SETTINGS, MANAGE USERS, and MANAGE CLUBS. At the top right, there are dropdown menus for 'all clubs' and 'all tags', with a note that it 'Can filter by public or private posts'. Below these are two event cards, both labeled 'Club A' and dated 'Thu Apr 13 2023 17:39:14' with a 'NEW' badge. Each card has an 'Event Title!', a timestamp, and a location ('Where: Pub'). Below the title are three circular RSVP buttons: a checked checkmark, a question mark, and an X. To the right of the question mark button is a yellow box labeled 'RSVP buttons'. At the bottom of each card is a 'View more' link and a 'public' button. Arrows point from the text 'Event details' to the event title and from 'RSVP buttons' to the question mark button.

CLUBER

Can filter by public or private posts

all clubs all tags

Club A

Thu Apr 13 2023 17:39:14

Event Title!

When: Thu Apr 13 2023 17:39:14

Where: Pub

✓ ? ✗

RSVP buttons

View more

public

Club A

Thu Apr 13 2023 17:39:14

Event Title!

When: Thu Apr 13 2023 17:39:14

Where: Pub

✓ ? ✗

View more

public

Mobile version of My Events page

The image shows a mobile application interface for managing events. At the top, there is a blue header bar with the word "CLUBBER" in white capital letters on the left and a three-line menu icon on the right. Below the header, there are two search/filter fields: "all clubs" and "all tags", each with a dropdown arrow icon. The main content area displays two event cards, each enclosed in a red-bordered box.

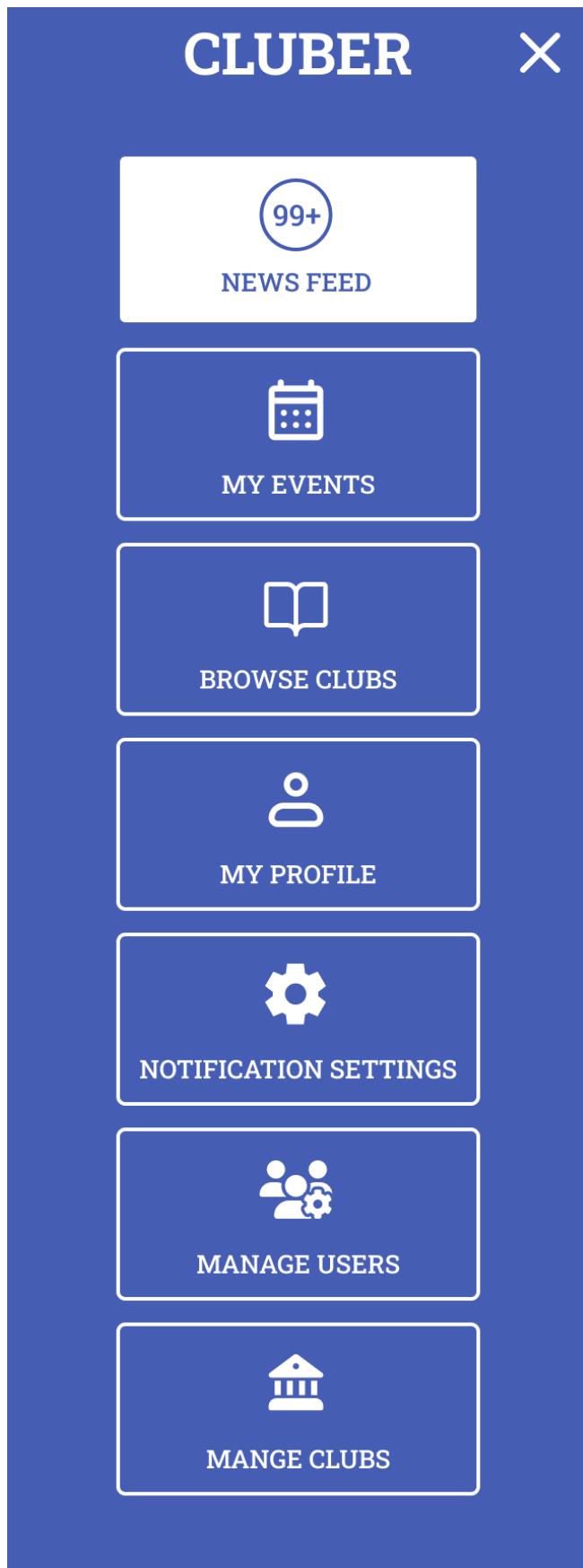
Event Card 1:

- Date:** Thu Apr 13 2023 17:39:14
- Title:** Event Title!
- When:** Thu Apr 13 2023 17:39:14
- Where:** Pub
- Options:** Three circular icons with symbols: a checkmark, a question mark, and an X.
- Description:** Lorem ipsum dolor sit amet consectetur adipisicing elit. Harum officiis sint, doloremque fugiat quia consequatur rem voluptatem as...
- Actions:** "View more" link and a "public" button.

Event Card 2:

- Date:** Thu Apr 13 2023 17:39:14
- Title:** Event Title!
- When:** Thu Apr 13 2023 17:39:14
- Where:** Pub
- Options:** Three circular icons with symbols: a checkmark, a question mark, and an X.
- Description:** Lorem ipsum dolor sit amet consectetur adipisicing elit. Harum officiis sint, doloremque fugiat quia consequatur rem voluptatem as...
- Actions:** "View more" link and a "public" button.

Figure7: Navigation bar (left side of viewport)



1. News feed button, allow user to navigate to their news feed; displaying posts by clubs relevant to the user.
2. My events button, allow user to navigate to their events feed; displaying event posts made by clubs relevant to the user.
3. Browse clubs button, allow user to navigate to a list of clubs they may wish to join.
4. My profile, allow user to navigate to their profile page and make changes pertaining to their profile.
5. Notification settings, allow user to navigate to a notification setting page to adjust their notification settings.
6. Manage users, allow club admins and managers to edit information regarding a club member or remove that club member from the club.
7. Manage clubs, allow club managers to change properties of the club, such as club name or club color.

The mobile version has the same functionality to the desktop version, but we move the navigation menu to the hamburger in the top right and will display as follows:

Our pages are broken down as follows:

1. News Feed: Shows all posts/events for clubs you follow. If a user is not logged in it will show public posts/events for all clubs.
 - a. You can filter by club and whether it is a post or event
2. Events: Shows all events which you have either not responded to, are going to or are maybe going to (eg. does not show events you are not going to). If a user is not logged in, it will show all public events for all clubs.
 - a. You can filter by events and whether it is a public or private event
3. Clubs: Shows all clubs. If you click on a club you will load a News feed page just for that club.
 - a. You can filter by clubs you follow or not if you are logged in
 - b. When you are looking at a club feed if you are a club manager you will click create post and a modal to create a post/event will appear.

Feedback:

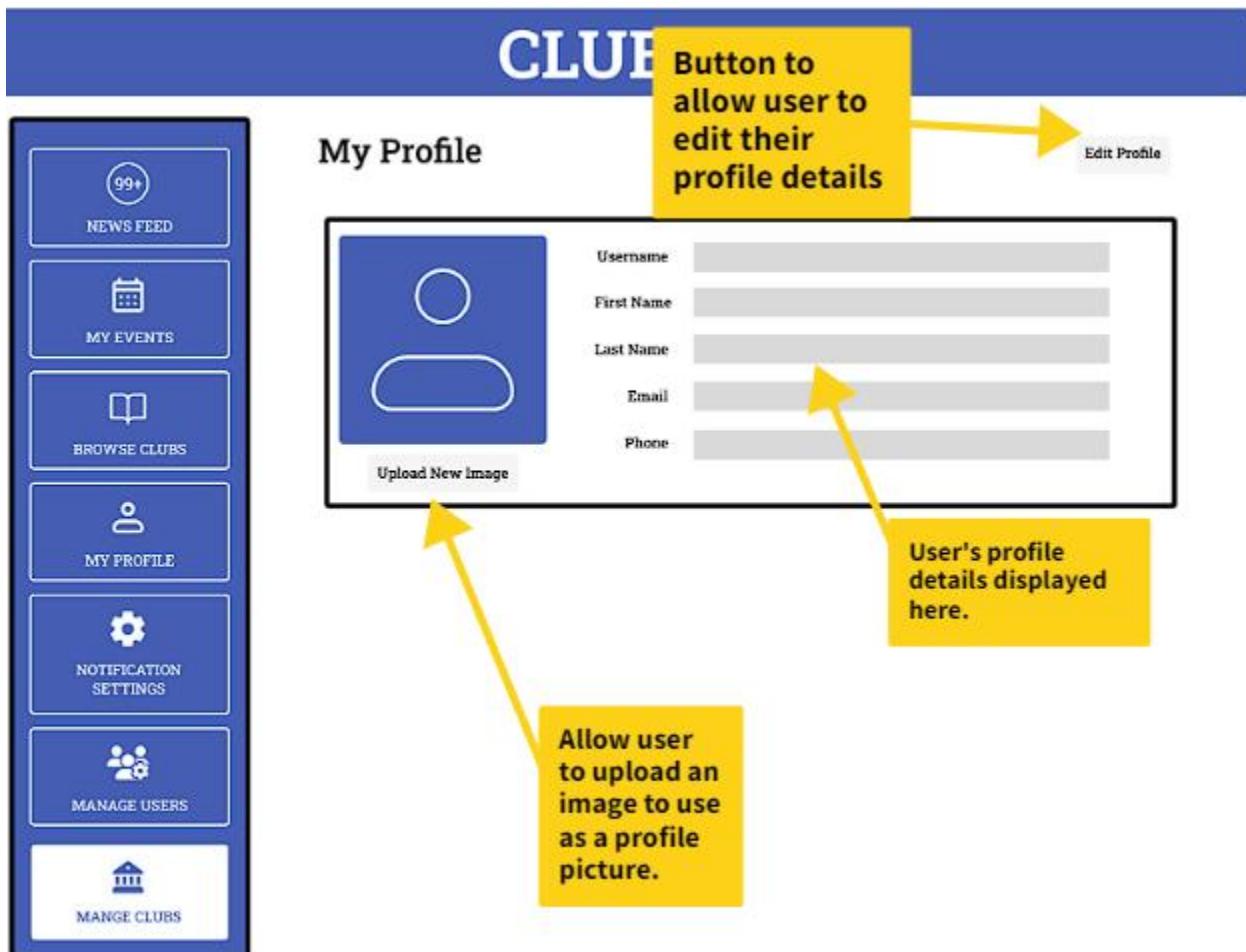
1. Might be hard to distinguish clubs. We had already accounted for this by saying each club would have a different color but this feedback reinforced this.
2. How will you know to click on a club card to enter it? We will make this more obvious by having like the unread outline, an enter club outline when you hover over it.

Profile

The profile page allows the user to change any info they added on login and also upload a new profile image. Mobile version will be largely the same, with the addition of the navigation menu in the hamburger. On load, users will be displayed their current profile picture and personal information. The Upload New Image button is located logically under the display picture to reduce kinematic and cognitive load. Users can edit their profile information by pressing the Edit Profile button.

Feedback:

1. Nothing in particular



Manage Users

This page will provide the functionality for users to manage their club members. Users with the required level of authority will be able to use this page to edit member information within their club, such as their username, first name, last name, email, phone number, and role. Club member information is clearly displayed in rows, with column headers at the top of the list which indicate what information is in each column. Admins and club managers will also have access to edit/delete buttons, allowing them to edit the information of a club member or delete that club member from the club.

Manage Clubs

The manage clubs page allows system admin users to manage various properties pertaining to their club. This includes club name, color, and add/remove club managers. Users can also delete their entire club from this page, or add/create another club. Once again we are using the familiar edit/delete icons consistent with the rest of our webapp.

CLUBER

Manage Clubs

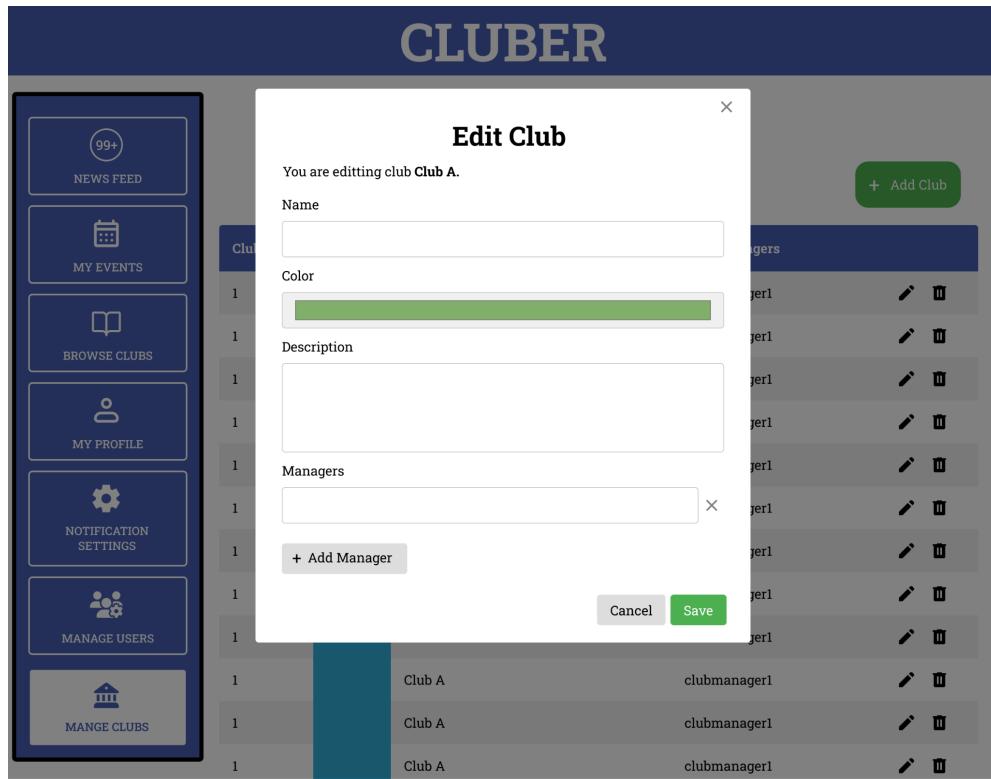
Table summarizing the current clubs

Button to create a club

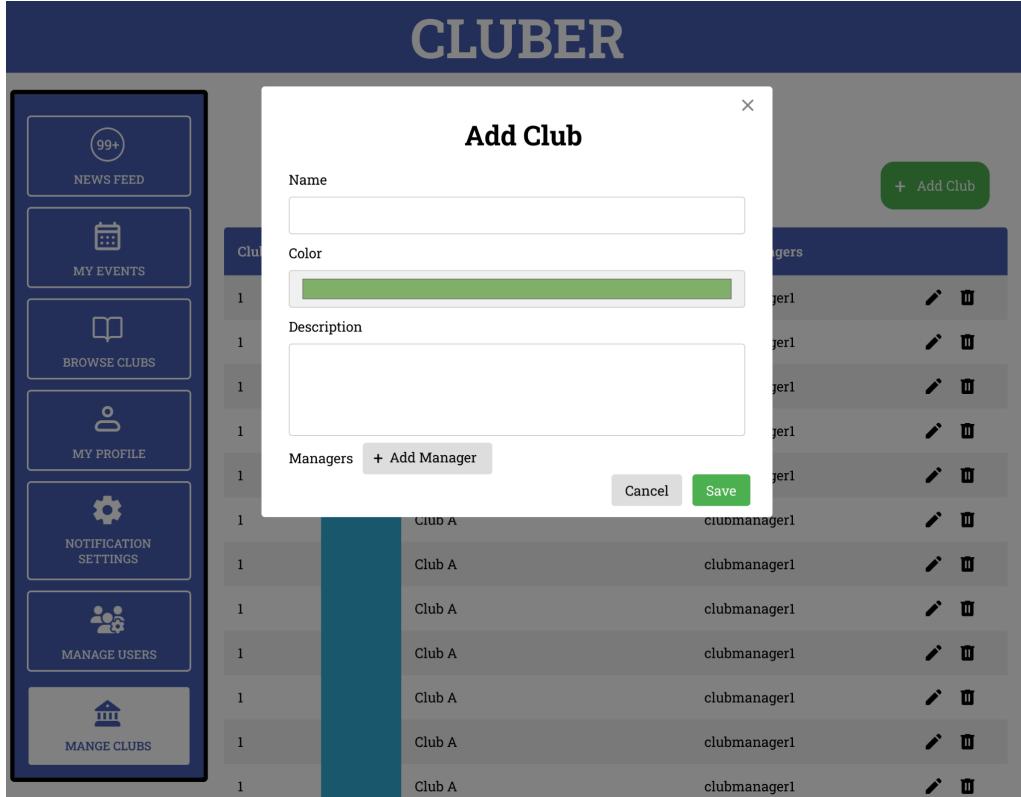
+ Add Club

Club ID	Color	Name	Club Managers	
1		Club A	clubmanager1	 
1		Club A	clubmanager1	 
1		Club A	clubmanager1	 
1		Club A	clubmanager1	 
1		Club A	clubmanager1	 
1		Club A	clubmanager1	 
1		Club A	clubmanager1	 
1		Club A	clubmanager1	 
1		Club A	clubmanager1	 
1		Club A	clubmanager1	 
1		Club A	clubmanager1	 
1		Club A	clubmanager1	 
1		Club A	clubmanager1	 

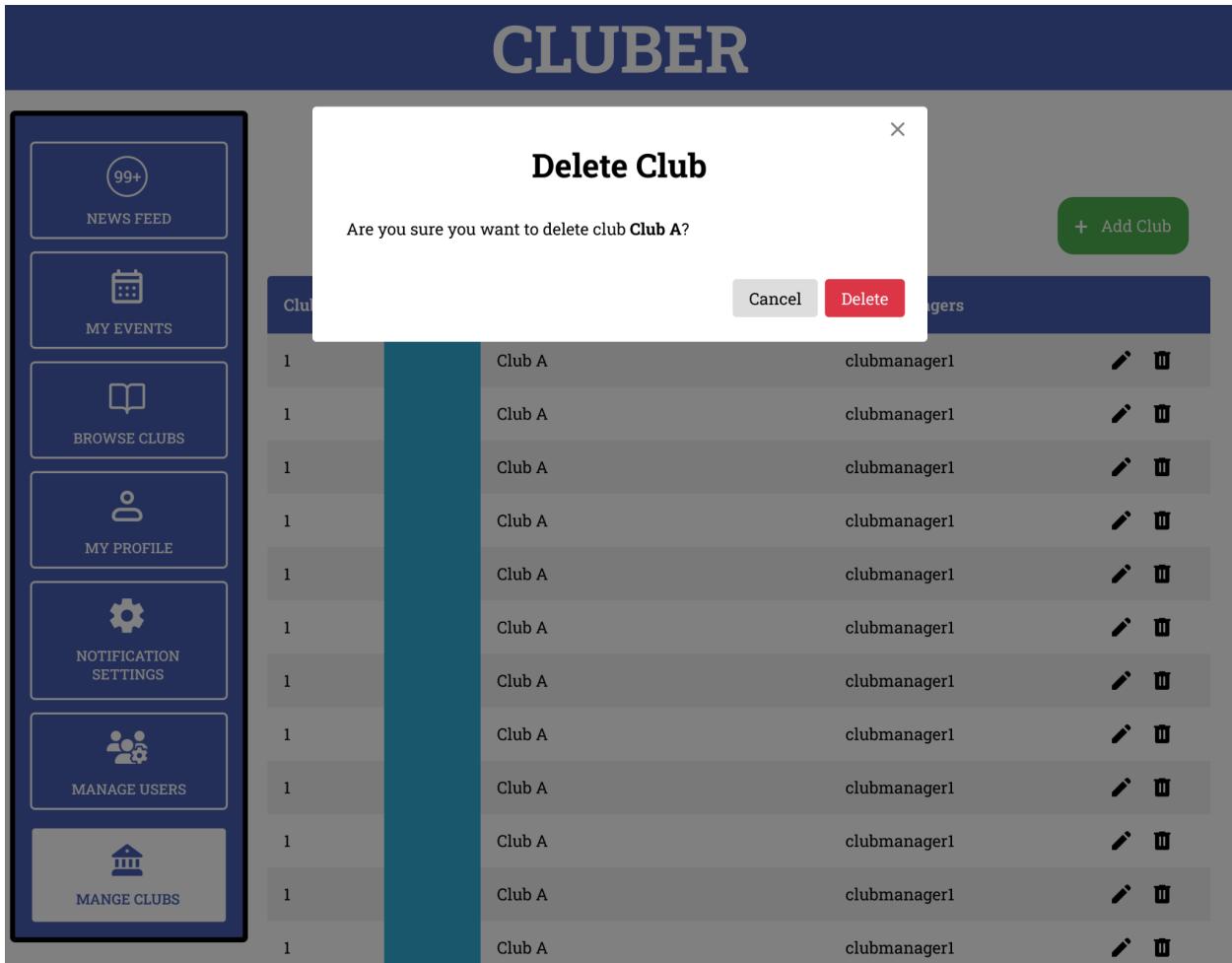
Clicking the “pencil” edit icon brings up this editing modal box, which allows the admin to edit information pertaining to that club.



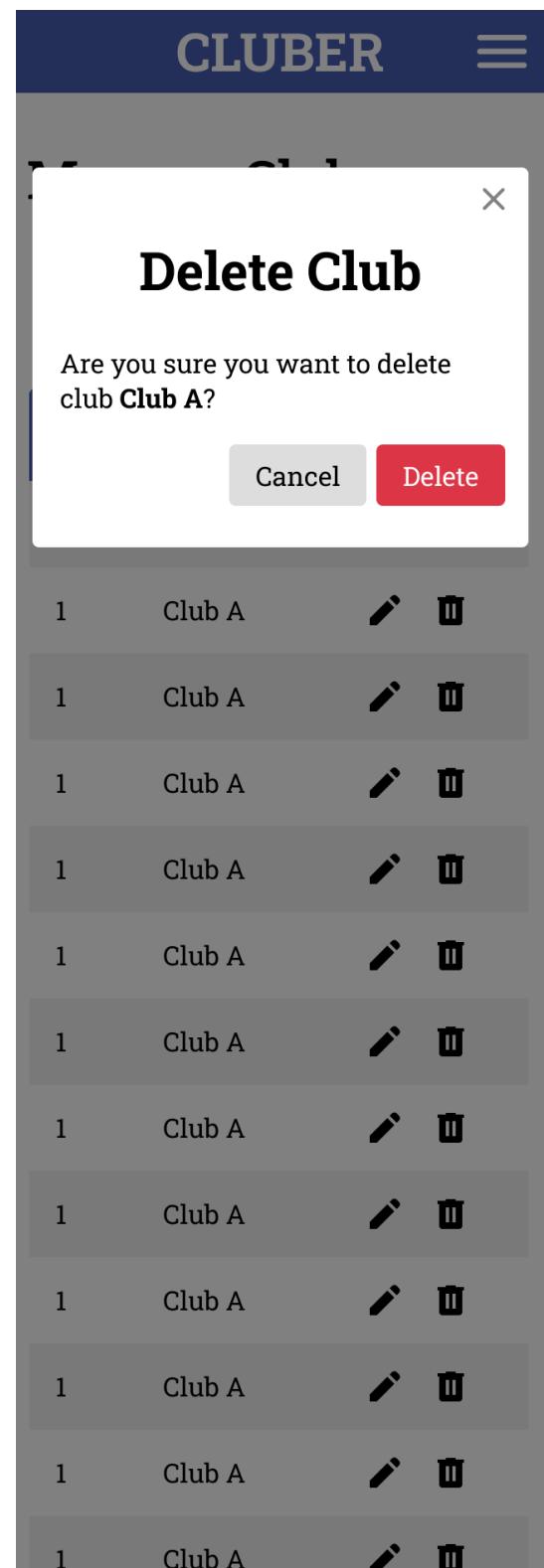
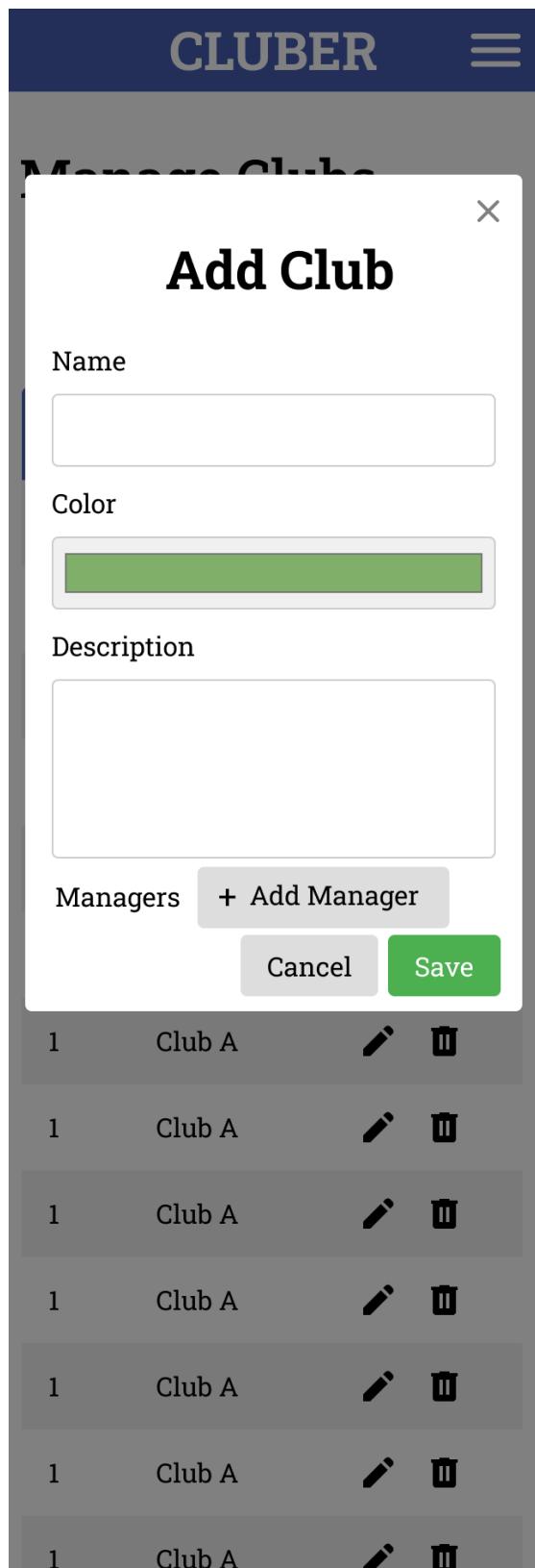
Clicking on the Add Club button will bring up another modal box, allowing the admin to create a new club.



Clicking on the “bin” icon delete club button, will bring up a modal box prompting the user to read a warning. They are given the option to cancel or continue with the deletion of the chosen club.



Mobile Version of Manage Clubs page



Heuristics in Relation to Our Design

We will run through the 10 usability heuristics and how they relate to the way we have designed our site.

We have referenced Nielsen, J. (1994) *10 usability heuristics for user interface design*, Nielsen Norman Group. Available at: <https://www.nngroup.com/articles/ten-usability-heuristics/> (Accessed: 11 May 2023). We have used the definitions of the heuristics as supplied via this site.

[1] Visibility of System Status

Definition: *The design should always keep users informed about what is going on, through appropriate feedback within a reasonable amount of time.*

We are aiming to have a quick response to any action taken by the user. If this isn't the case, we are waiting for anything, we plan to implement loading indications so as to ensure the user does not think nothing is occurring. We are also ensuring our site is predictable. If you click something the response shouldn't be unexpected. An example of this is our navigation being clear where it is taking you.

[2] Match between system and the real world

Definition: *The design should speak the users' language. Use words, phrases, and concepts familiar to the user, rather than internal jargon. Follow real-world conventions, making information appear in a natural and logical order.*

We aren't using any fancy language with our site. All buttons tell you what they will do. As our site is aimed at a general audience we aren't needing specific terminology and need an everyday person to look at our site and know what it does immediately.

[3] User control and freedom

Definition: *Users often perform actions by mistake. They need a clearly marked "emergency exit" to leave the unwanted action without having to go through an extended process.*

We allow a user to back out of any action. Whether it be our navigation screen on mobile, club creation or post creation. There is also a close out button.

[4] Consistency and standards

Definition: *Users should not have to wonder whether different words, situations, or actions mean the same thing. Follow platform and industry conventions.*

Via our research we have designed a site that mimics other sites within our area. Someone that has used Facebook or Reddit would be able to see our site and quickly see similarities that make it familiar to them. There isn't a large learning curve to our site. Nav menu on the left, main content feed in the center. On mobile the menu selector being in the top corner is a common theme on websites and we have followed this rule.

[5] Error prevention

Definition: *Good error messages are important, but the best designs carefully prevent problems from occurring in the first place. Either eliminate error-prone conditions, or check for them and present users with a confirmation option before they commit to the action.*

We are aiming for a site that has no errors; have since started following practices to avoid this. A reviewer is required for branch merging, and we test the main branch at intervals via our whole team to ensure we are minimizing the chance of an error.

When we implement/integrate the backend functionality we expect a higher chance of errors stopping a user from performing actions so these practices we have begun now will prove invaluable then.

[6] Recognition rather than recall

Definition: *Minimize the user's memory load by making elements, actions, and options visible. The user should not have to remember information from one part of the interface to another. Information required to use the design (e.g. field labels or menu items) should be visible or easily retrievable when needed.*

We are using large symbols in our design and a consistent layout between pages. Our elements (Filters, navigation, main content) remain in the same areas so a user will quickly become accustomed to where everything is. We haven't hidden options several layers deep that require a user to recall there is a feature but not know where it is.

[7] Flexibility and efficiency of use

Definition: *Shortcuts — hidden from novice users — may speed up the interaction for the expert user so that the design can cater to both inexperienced and experienced users. Allow users to tailor frequent actions.*

Our design is at the moment simple enough that there are no direct shortcuts we can provide. Our belief is to provide a high quality site that works well, with a lack of errors, and then add advanced features later if we can. As our site evolves this may allow for flexibility but we don't want to currently trade our current straight forward design to try and reach this specific heuristic.

[8] Aesthetic and minimalist design

Definition: *Interfaces should not contain information that is irrelevant or rarely needed. Every extra unit of information in an interface competes with the relevant units of information and diminishes their relative visibility.*

As mentioned earlier we have kept a simple sleek design. All the elements are required for functionality and there is no fluff. Having said this, we believe our site is relatively pleasing to the eye and doesn't have the look of a non-styled html page.

[9] Help users recognize, diagnose, and recover from errors

Definition: *Error messages should be expressed in plain language (no error codes), precisely indicate the problem, and constructively suggest a solution.*

We believe this issue will arise more when we create the back end. One aspect of our design currently is that we do tell a user when they have filtered and there are no posts/events rather than a blank screen. We aim to continue this feedback wherever we require it.

[10] Help and documentation

Definition: *It's best if the system doesn't need any additional explanation. However, it may be necessary to provide documentation to help users understand how to complete their tasks.*

We don't believe our site really needs documentation for a user in its current form. We do not aim to bloat the site and need documentation but we may look at adding a wiki if it is required.

Feature Summary

1. The sign in and account creation screen will be the index page. Users can login via google or enter their details directly. They can also bypass this and continue directly to the site.
2. The profile page will allow users to manage their user information. The fields will be filled in on account creation and these can then be edited and submitted to update their information.
3. Navigating to the club menu users can join clubs.
 - a. They can filter clubs at the top by area (Eg. sports, faculty etc) or ones they follow or don't follow
 - b. They can click a club to enter it and view that club's specific posts and events. This page acts the same as the newsfeed page.
4. The news feed will show updates from clubs. These being new posts and events.
 - a. If a user is logged in they will see only their followed club's posts.
 - b. They can filter via post or event. They can also filter by specific clubs.
 - c. Users will see new posts and when clicked this will be removed. In the navigation there is a number indicating the number of unread posts.
5. The events page in particular will be used for rsvping but this can also be done on the news feed.
 - a. This page shows only events by default that the user has either not responded to, are going to or might be going to.
 - b. Events can be filtered via clubs. Events can also be filtered by public or private.
6. A club manager will be able to for clubs they manage and navigate to the club page to create posts/events. They will see the extra info (Who has rsvp'd and members on this page as well)
 - a. The post creation pops out a modal where they can choose what type of post they are creating and specify the content.
7. System admins will see two extra links in the menu to manage users and clubs.
 - a. Manage Users: Will allow a system administrator to manage the users currently present on our site. Assigning them a club manager or system administrator role, editing other of their details, or deleting a user. It will also allow filtering users by their role and searching by username.
 - b. Manage Clubs: Will allow a system administrator to create, edit and delete clubs.
 - i. All of this will be done via a table and various modal popups.
8. We haven't fully decided on special features but at the moment we believe it will be:
 - a. Email notifications
 - b. PWA: We have kept a conscious effort to make sure our site displays well on mobile devices.

Feature Breakdown

Our site has three main pieces of content for the majority of users. Clubs, posts and events. Clubs are simply the club in the system. We then have posts and events made by these clubs. We have designed this in a way where posts/events will be stored in the same database table but contain only the info that these require. Eg. posts will not need a location or event time. The reason for this is simplicity. It will make it

easier to present the data in our site in a logical order this way. We plan to have the content appearing with the newest posts/events at the top.

1. Loading of posts and events consists of the initial load as well as the subsequent filtering done by a user.
 - a. The initial load will be a GET request to the server to obtain the relevant initial load.
 - i. This would be on the news feed posts that belong to clubs the user follows
 - ii. This would be on the events page posts that are events and that the user follows
 - iii. This would be on the club page posts/events for that specific club
 - b. This initial load will be stored on the client side and that array will then be filtered each time to supply the relevant data to the user. The original array will be retained. We will do this to reduce the number of requests we need to make. We will make a new request if the user gets to the end of the page and wishes to load more posts. The initial request will be capped at a number as yet undecided and then each request after that will obtain that next amount of posts.
 - c. Our GET requests will use URL parameters to obtain the initial relevant data as listed in point a.
2. Post creation will be handled via a POST request. This POST request will contain all the relevant info to ensure it is linked to a club and has the required attributes for if it is a post or event. Once created it will appear immediately for the user that created it.

For system administrators, there are another two pages for managing clubs and users.

1. Loading of clubs will be performed by a GET request to the server on the page load and after modifying any of the clubs by deleting, editing, or adding a new club.
2. Club creation/editing will be handled via POST requests. This will contain all the relevant information for that club which will include its name, color, description and a list of managers. Then the new list of clubs will be retrieved by a GET request.
3. Club deletion will be done via DELETE request containing club ID of the club to be deleted. After that, a new list of clubs will be retrieved using a GET request.
4. Loading of users will be performed by a GET request to the server on the page load and after modifying any of the users by deleting, editing, or adding a new user. The list of users and their details will be stored on the client side where additional filtering will be performed, if specified by the user.
5. User editing will be handled via POST requests. This will contain all the relevant information for that user which will include username, first and last name, email, phone number and user's role. Then the new list of users will be retrieved by a GET request.
6. User deletion will be done via DELETE request containing user ID of the user to be deleted. After that, a new list of users will be retrieved using a GET request.