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# WEB PROJECT

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Submitted by: UG119 - lease.sugars.luck



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**Web & Database Computing (2207\_7207  
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# Milestone 1:

Key Features:

1. Design of the Platform.

## Arc UNSW Club Web Page

Link: <https://www.arc.unsw.edu.au/clubs>

Style: The design style of the webpage using contrasting colours to easily distinguish different aspects of the webpage. The webpage has a white background with green highlights that act as borders between the different link buttons. For example, the different club links have a green border at the bottom which helps break them apart from the link below. Buttons also highlight green when hovering a mouse cursor over them and turn bold when clicked. Black is used to separate consistent webpage features from the rest of the webpage. The bar at the top of the page is consistent and provides links to other aspects of the webpage. This being black allows for a contrast from the rest of the webpage so the user can quickly find it.

Structure: The structure of the webpage is box structured. It is separated into different boxes that break up the page and make it easy to navigate. The list of clubs is separated into equal rectangles that give a summary of the club. Which has a category filter in its own boxed section to the left. Separating the page in such a way is not only neat and can be arranged to fit different screen orientations with relative ease but makes it easy to navigate.

Elements to Build on: The search icon in the webpage heading requires you to click on it before the search box would appear. The other search box is further down the page. It would be better to be able to search with just open click rather than having to open the search box. This is a minor inconvenience, but the site has many elements that are already well designed.

## UQU Clubs and Societies Web Page

Link: <https://www.uqu.com.au/connecting-u/clubs-societies>

Style: The design of this webpage is simplistic preferring to stick to plain black and white as the colour theme. There are a range of different font types being used as well as the text being changed to bold in certain areas. The bar at the top of the page seems to blend in with the page which makes it harder to find than if it were a contrasting colour especially since it is white on white. The links in this bar have a drop down that unrolls itself over a short period of time.

Structure: The webpage has the list of all the clubs on the main page with a webpage bar at the top that moves with the page. The search bar at the top of the page opens a pop up that closes off the rest of the page for a search bar. There is a filter on the left of the clubs list so you can easily choose to filter the clubs list to a specific area you wish to look at. The overall layout is of good structure however some decisions make it less friendly to interact with than the Arc UNSW Club page. The lack of contrasting colours makes you need to look harder for icons and features.

Elements to Build on: Once again the search icon requires you to open a completely new pop up that this time covers the rest of the page. You are then required to click in the search area to begin typing. This seems to waste time rather than just having a simple search bar on the webpage bar. Which would be more simplistic and work better. The colours need more contrast in certain aspects so you can easily find elements. The links at the top of the page roll down their contents

which looks nice but seems unnecessary and seems to waste time when it should be quick so you can navigate the website easily.

### JCU Student Association Web Page

Link: <https://www.jcusa.edu.au/clubs/>

**Style:** The design of this website is white with blue text on important titles and images take up most of the page with links along the side to access the other parts of the webpage. There are different colours used to represent different buttons such as emailing the club or link to the Facebook page. There is a textual hierarchy where different headings are different size and colours as well as being bold or not.

**Structure:** The home page has a brief description on the student association and clubs. However, unlike the other webpages does not include the list of clubs on the main page. Instead, links on the side take to different webpages for the list of clubs. The list is also specific for campus as JCU has multiple campuses. Therefore, the students can navigate to clubs available at their own campus. The club list is listed in a table like format with the club's name and president with links to more information about the club.

**Elements to Build on:** There is no specific website for the clubs instead it is apart of the student association and takes up a part of that website in its own little webpage. However, this works to allow you to gain access to other parts of the association from the main webpage of the association. The club section could be formatted as its own webpage with the links more pronounced and maybe a brief overview of each of the links.

**Evaluation:** From looking at the different websites we can derive the following factors. The design of the webpage should be simplistic to navigate taking on a box structure that allows for different aspects of the website to be separated into their own sections. Two contrasting colours work well for navigating the page and coloured highlights work well for distinguishing aspects of the webpage.

Using link buttons to traverse the webpage and placing these in appropriate place such as the webpage header work well for webpage traversal. A distinctly bordered/coloured page header makes it easier to navigate to when on the webpage.

The search functions for these webpages could be improved or at least moved into more desirable locations as the pop ups take up more time for the user to use when the process can be accelerated. Pop up menus on linked pages being instant is good as it also increases the speed of the use for the users compared to scenarios where they were animated.

The club list being on the main page is also a benefit and the box form of the clubs with small description is vastly superior to the listed version used on other webpages. It allows for the user to view the club without having to click on the club itself and move through and filter out the clubs they wish to look at in more detail.

#### 2. Information for User to Provide.

The user will need to provide information that: One, identifies who they are, for example their name, date of birth, possibly their address etc. Two, they will need to provide their student ID or reference number so that they can be identified as a student at the university so that not just anyone can join

the club. Three, a password and email that they can use to log in to the webpage with as well as provide ways of confirming identity and providing a way of retrieving forgotten passwords.

### 3. How will the user log in.

The user will login using their email address and a password, or possibly with a student ID number. Email is the most likely case as the email can then be used to retrieve information if they forget their password etc. The email could also be linked to a notification system of some sort so email can be sent out to the members.

### 4. Interaction with System.

The user will need to be able to interact with the system by being able to login and access club related information. There interaction will require them to be able to navigate through multiple pages. Managers of a club will need some way of using the website to affectively communicate with members of the club as per requirement.

### 5. Managing Clubs.

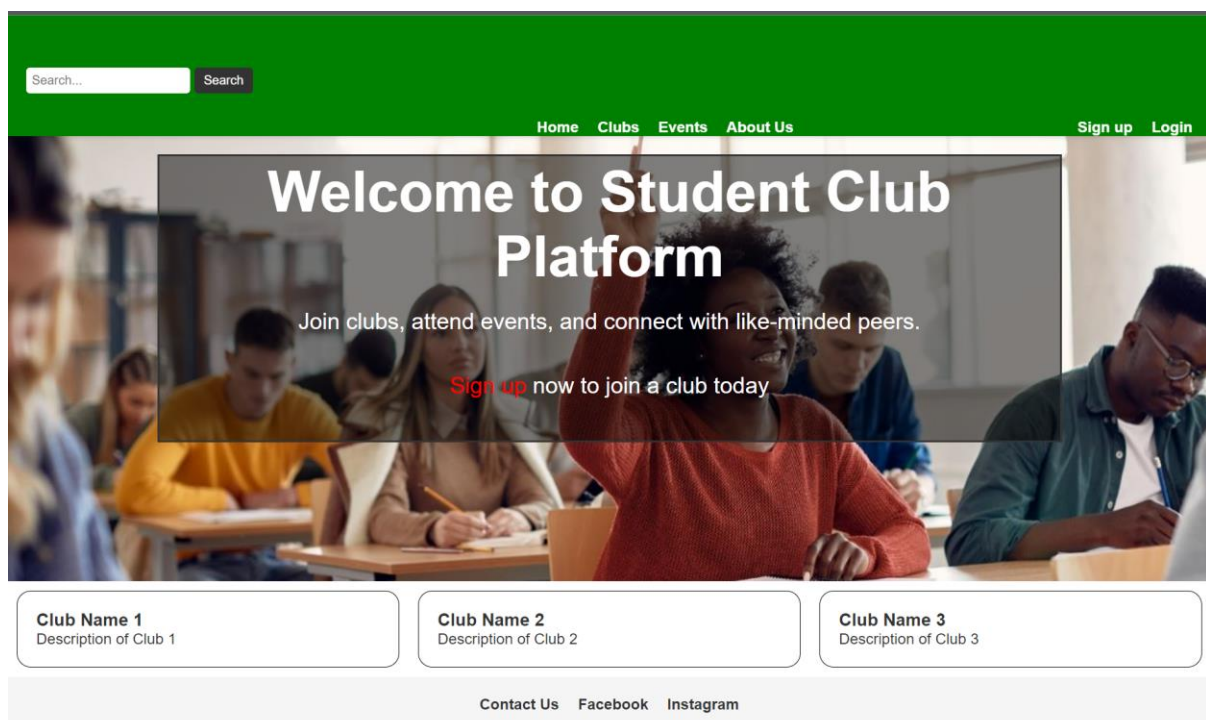
Once logged in someone who has appropriate authority in a club could have access to updating their own specific club's webpage. They could alter the text, images, and contact information on the club's page.

From being logged in they could also gain access to a members list and their contact details. There could be a notice board for upcoming events on the page that would be available to members once they log into the website. This would allow clearer communications.

## Project Prototype:

Firstly, any user can visit our website homepage and navigate around to gain information about the clubs.

Here is the demonstration of our club homepage.

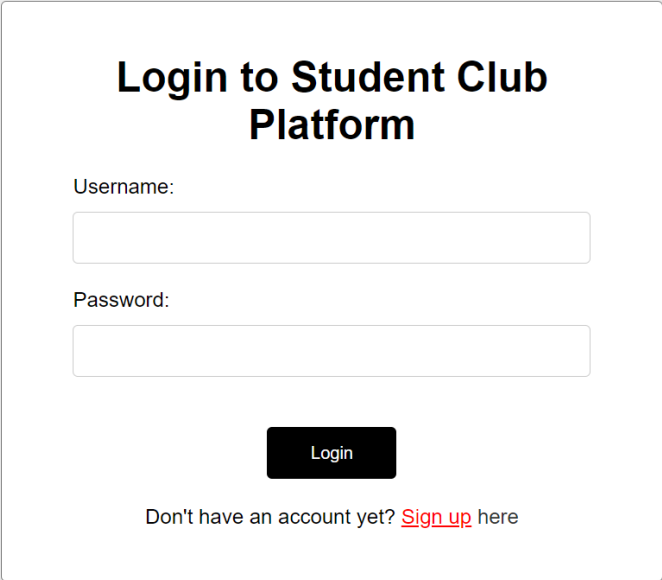


On the top left corner of the website is the search bar which can be used to search for any existing club by typing the name of the club. The guest can sign up or login as a member by clicking the sign up or login button from the home page. The Sign-up button in red in the description of the homepage is also linked to the sign up page for a new user. Any user can view the summarized version of the available clubs from the home page which they can click over to navigate to the dedicated club page where they can get full details about the club and the events and updates for the club.

To improve usability and cognitive load we ensured that the most important information was central. The sign up button was also colored red to bring attention to it and to signal that it was a link. The links in the header were purposefully put close together to decrease kinetic load.

Here is the login page for the user:

[Back to home](#)



The image shows a login page for a 'Student Club Platform'. It features a white rectangular form centered on a light gray background. At the top of the form, the title 'Login to Student Club Platform' is displayed in a bold, black, sans-serif font. Below the title, there are two input fields: the first is labeled 'Username:' and the second is labeled 'Password:'. Both labels are in a small, black, sans-serif font. The input fields are simple white rectangles with thin gray borders. Below the password field, there is a black rectangular button with the word 'Login' in white, sans-serif font. At the bottom of the form, there is a line of text: 'Don't have an account yet? [Sign up](#) here', where 'Sign up' is a red, underlined link.

The login page is same for every level of users (I.e. members, club managers and admins). The Username will be used to extract information from the database and determine the level of authorization for each user. If no account was previously created user can always sign up as a new member using the red sign up button in the bottom of the page.

This is how the sign up page looks like:

**Sign in new account.**

First Name:

Last Name:

Email Address:

Username:

Password:

Confirm your Password:

**Sign up**

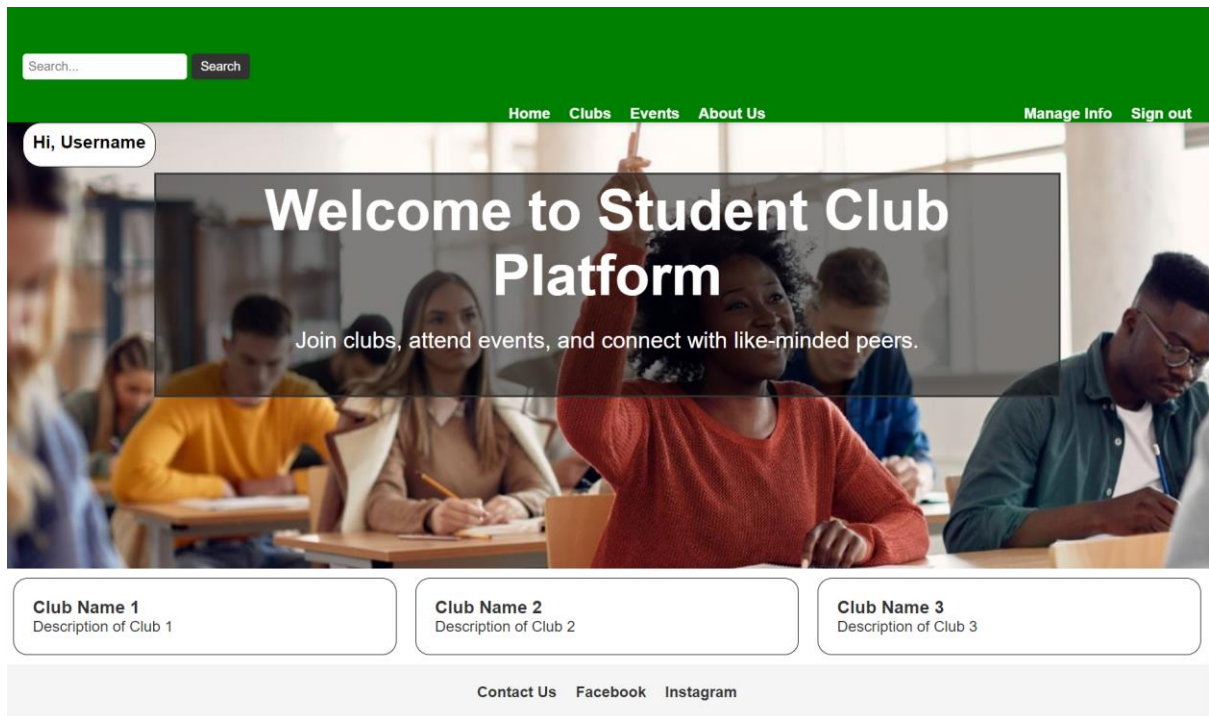
Already have an account? [Log in](#) here

It is kept very simplistic design to help the user focus on the information to provide. Only credentials strictly necessary is asked while signing up a new member. The email address is used to send regular updates and notification about the clubs and events if the user is interested. The Username must be unique for each user as this will be used the primary key for the member table in the database.

Once the member is signed in, as mentioned above 3 types of users, Members, Club managers and Admin. Each user will have slightly different webpage options available for them.

After creating a drawn draft, we noticed a few changes that were necessary to improve usability and decrease cognitive and kinetic load. The log in and sign up buttons were underlined and colored red, to make it more clear to users that it was a link, and to bring attention to the most important part of the text. The text input was also centralized to decrease the kinetic load.

Here is the demonstration of the Homepage view for all 3 members since it is the same for all 3 users:



The Homepage for the members is very similar to the homepage of the guest users, inheriting all the core features with a few additional like the “Sign out” button that logs out the user and navigates to the homepage which is viewed as guest. “Manage Info” button which leads to a new page where user can change their provided details during sign-up.

### Change User Details

**First Name:**

[Edit](#)

**Last Name:**

[Edit](#)

**Email:**

[Edit](#)

**Password:**

[Edit](#)

**Username:**

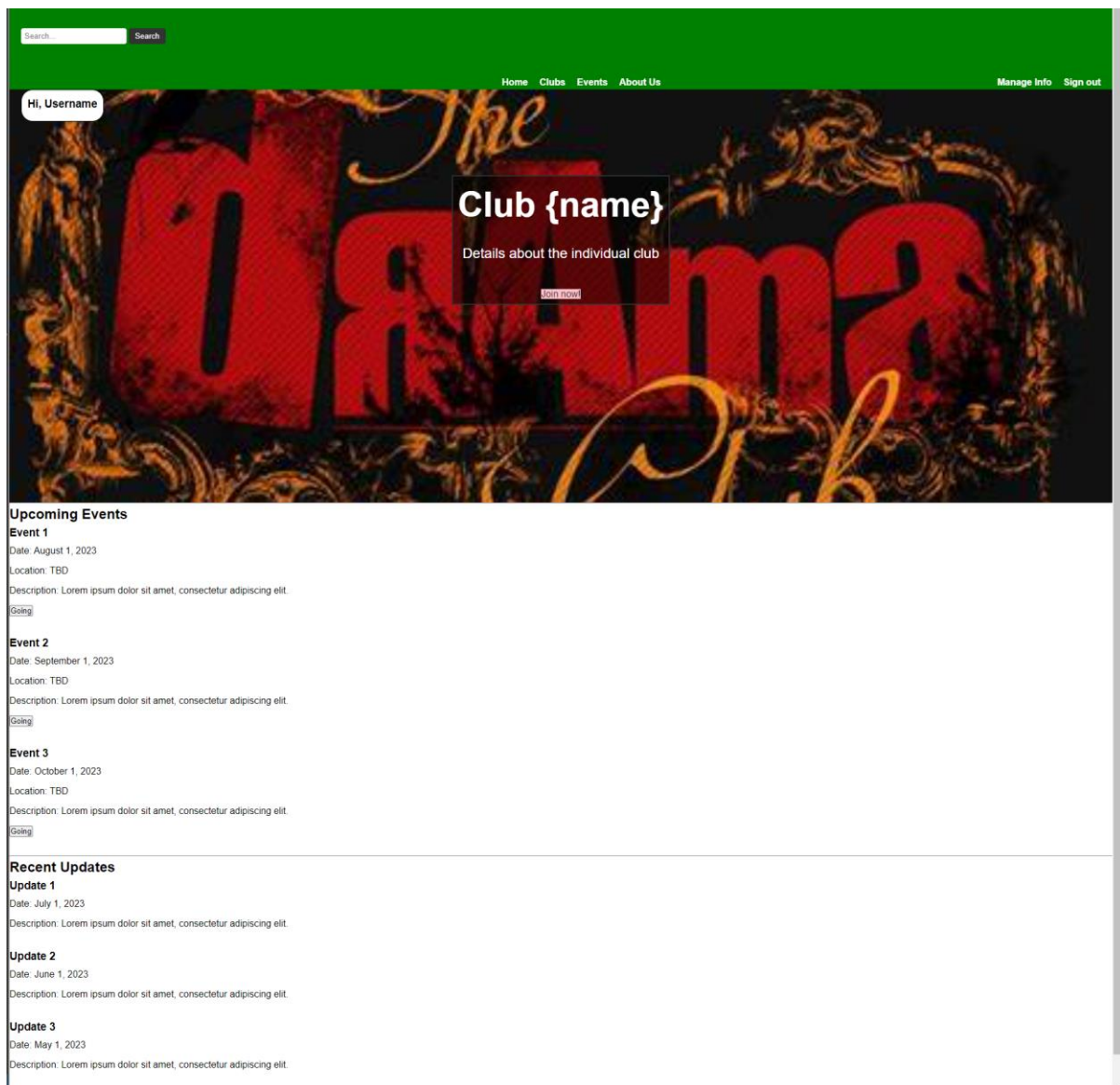
[Edit](#)

Here each field will show the saved credentials for the user and they can edit each field and manage their user information and store new details which will also change the database automatically.

To improve usability and cognitive load we decided to put the important information in bold, so that the users would be able to easily identify what the page and each text box was for.

Now when a user clicks in one of the clubs it will redirect to that specific club page containing all the details. Here is a sample of the individual club pages:





This is the preview of an individual club page specifically for a guest and member. The page design is same for both guest and member but the functionality is different. If a guest clicks on the Going or the join now button in the club page it will redirect them to the login page asking them to sign in as a user before interacting with the club. Else If they are member to the club, there will be green dot next to the Going button and the joined button with an additional notification sent to the user by email confirming that they have successfully joined the club and the user is going to the event and thus can receive updates about the event through email.

To improve the usability of the website the important information was put at the top, so that users would be able to find information about the club easily. We also realized the text 2for the name of the even or the announcement needed to be bold, so that users would be able to read the most important information quickly and then look over the details if they were interested. The RSVP button was also put directly under the even to decrease kinetic load.

The club page is different for managers and admins as they have some extra functionality:

Here is the preview for the Club dedicated for the admin:



[Home](#) [Clubs](#) [Events](#) [About Us](#) [Manage Info](#) [Sign out](#) [Manage Members](#)**HI ADMIN**

# Club {name}

Details about the individual club

## Upcoming Events

Title:

location:

description:

### Event 1

Date: August 1, 2023

Location: TBD

Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

### Event 2

Date: September 1, 2023

Location: TBD

Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

### Event 3

Date: October 1, 2023

Location: TBD

Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

[Delete](#) [Edit](#) [See Members](#)

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### Recent Updates

Title:

description:

[Create Update](#)

#### Update 1

Date: July 1, 2023

Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

[Delete](#)

#### Update 2

Date: June 1, 2023

Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

[Delete](#)

#### Update 3

Date: May 1, 2023

Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

[Delete](#)

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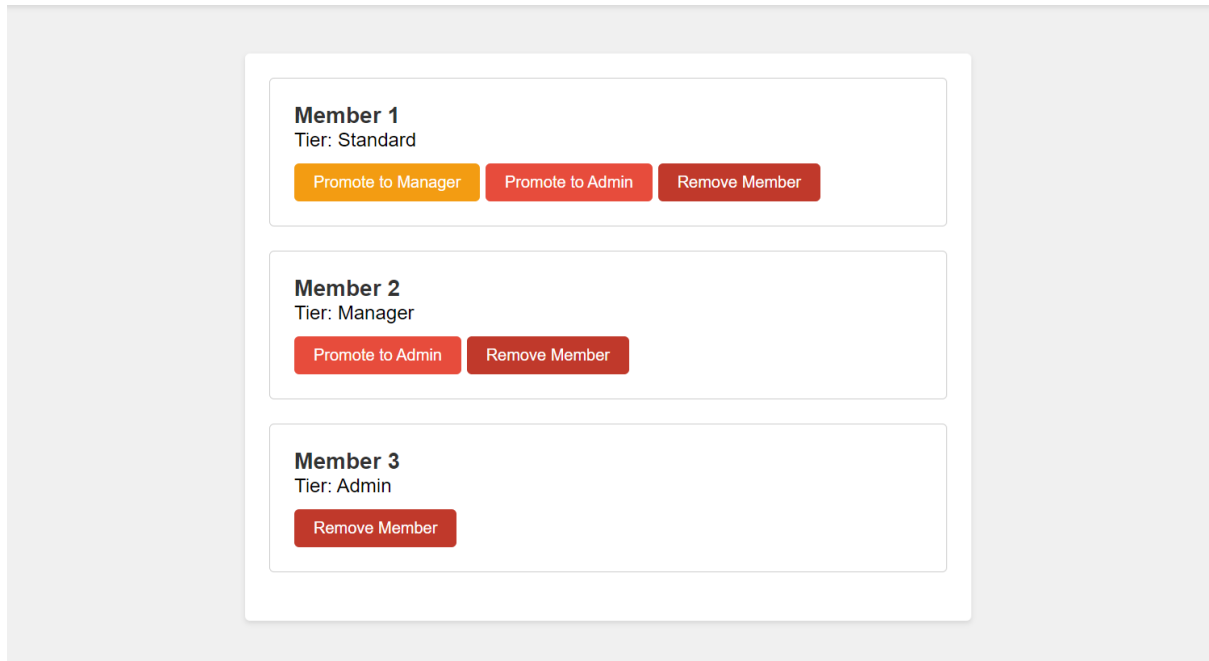
[Contact Us](#) [Facebook](#) [Instagram](#)

The admin can manage clubs i.e. create new clubs or delete any visited club. There are buttons below each events to delete, edit or see the members participating to that particular club. There is also a form to create new events. The update section is very similar. Admin can create or delete an update. The date of the update or the event post will automatically be placed by the system. One new feature for the admin is the manage member button on the top right of the page where admin see all the members and make changes as necessary.

Initially our plan for club updates and events was to create a separate page for admins and managers to access. But after review we realized it would be easier to have the functionality on the club page itself, decreasing the kinetic load as managers and admins would not have to navigate to a separate page.

Here is a preview for the manage members webpage:

## Member List



Here the Admin can promote any user as necessary or even remove members.

To improve usability and cognitive load the buttons were color coded to make it easier to identify them. This would decrease the likelihood of error when editing user information for admins.

Here is the preview for Club page which is available for the manager:

[Home](#) [Clubs](#) [Events](#) [About Us](#)[Manage Info](#) [Sign out](#)

Viewing as Manager

# Club {name}

Details about the individual club

## Upcoming Events

Title:

location:

description:

### Event 1

Date: August 1, 2023

Location: TBD

Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

### Event 2

Date: September 1, 2023

Location: TBD

Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

### Event 3

Date: October 1, 2023

Location: TBD

Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

[Delete](#) [Edit](#) [See Members](#)

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### Recent Updates

Title:

description:

[Create Update](#)

#### Update 1

Date: July 1, 2023

Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

[Delete](#)

#### Update 2

Date: June 1, 2023

Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

[Delete](#)

#### Update 3

Date: May 1, 2023

Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

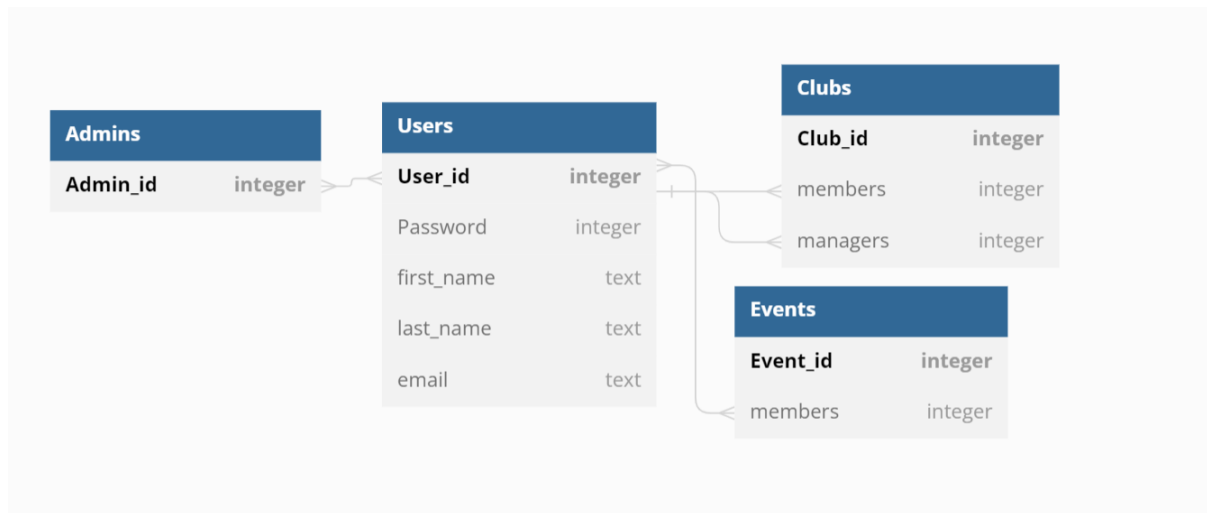
[Delete](#)

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[Contact Us](#) [Facebook](#) [Instagram](#)

The manager has similar options as the Admin with a few restrictions like the manager cannot create new Clubs or delete an existing one. A manager also does not have any access to the modify any existing members, he can only see which members responded to the events. Similar to the admin the manager can modify the events or updates in the club page.

## Database Schema



When a user creates their account, their username will be saved in User\_id along with their password first name and last name. The email will be set to null as default and will be changed if the user decides to link their email address. When a user joins a club their user id will be saved as a member in the club table. If they are set as a manager their user id will be saved as a manager. Each club will have a unique id to identify it. When clubs create an event a table for that event will be created, and when users RSVP for the event their user id will be saved as a member of the event. When a user is promoted to an admin their user id will also be saved in the admin table.

When a user logs in through the website the server will look over these tables to determine what to display on the homepage depending on what clubs they're in, and whether or not they are an administrator or club manager.