

# Research

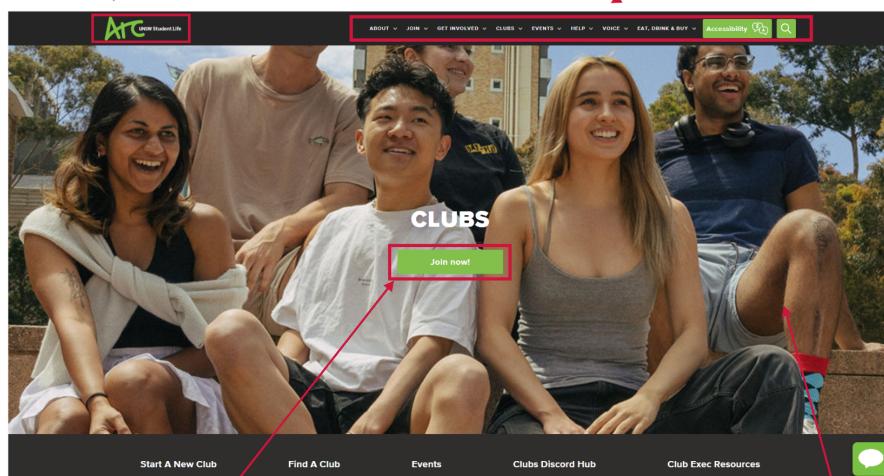
A club platform system should work as a centralised hub that allows users to manage their activities as well as interacting with other clubs and users. In order to develop a high-quality student platform system, we have conducted multiple research on university club websites to analyse their approach in building a friendly and well functioning website. Here are some examples of pages/services that inspire us in terms of building a student club platform system.

For a “Home Page”, Arc - UNSW Student Life websites provides a pleasant look while also ensuring the ease of use. Figure 1 & 2, display our brief analysis on this page.

**Figure 1**

Clickable Logo that direct user back to the page

Navigation Bar that allow user to quickly access different function

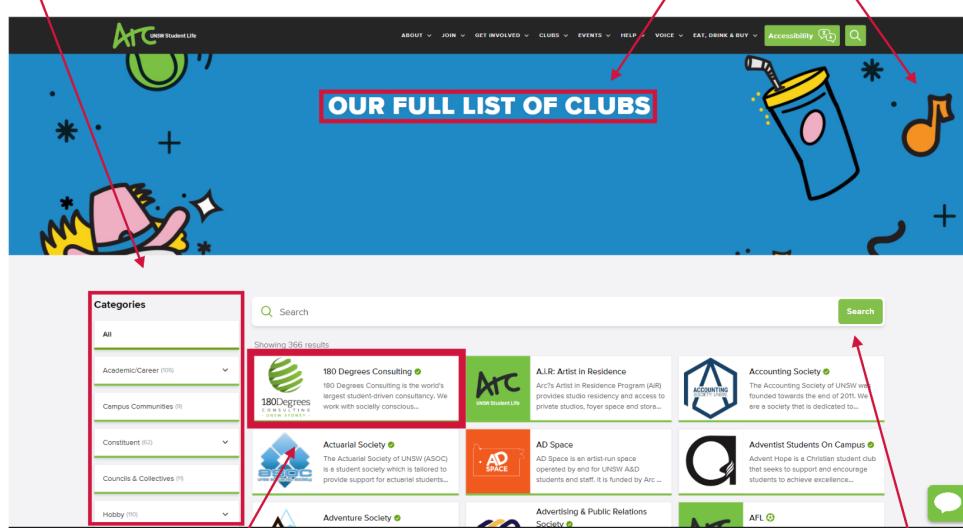


Button that allow direct user towards register page

Image that represent the page

## Figure 2

"Categories Section" that assist sort club according to need



Logo & Brief description about the club  
(also allow user to access club page when clicked)

Page description & Background

Search Button & Search bar  
that help sorting out clubs

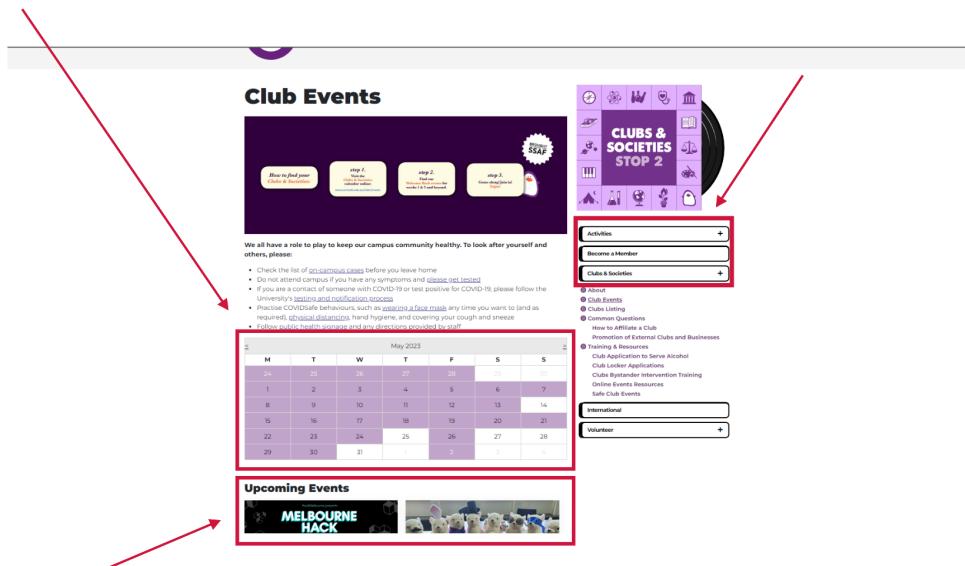
Overall the website provides clear sections that outline a particular function rather than trying to overwhelm the user with lots of information. The structure of the page follows a particular pattern combined with consistent design delivering a friendly outlook. Thus we could learn to apply this sort of design and structure for our website. However, there are some downsides as the club lists as it appears to be too long, so for our group we may try to split it into pages to maintain the load and size of the page, and for the navigation bar we aim to make it simpler and be able to extend it when pointing at.

The University of Melbourne club website provides a creative solution for events pages that we can't find elsewhere when researching. This is reflected on figure 3.

**Figure 3**

Calendar section with the function to search and access events that happening

Side navigation bar contain multiple options that link to different sections

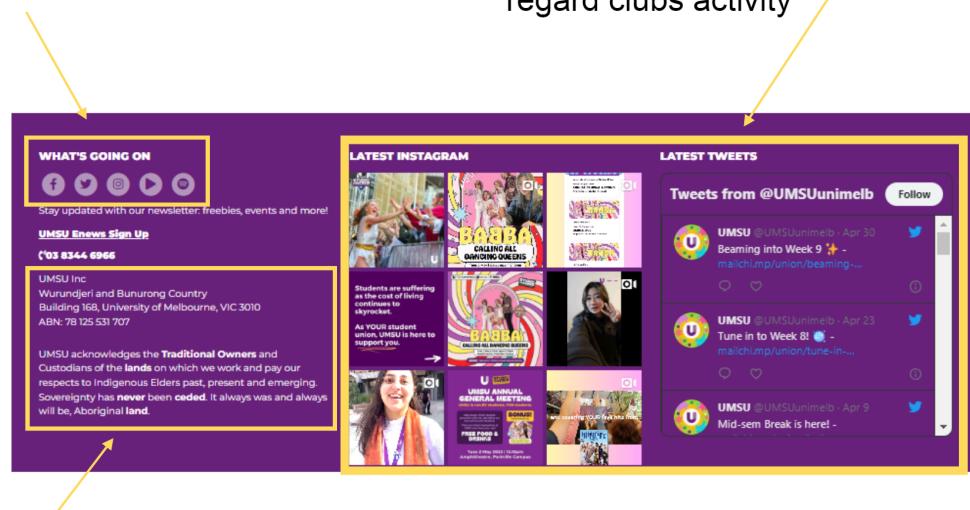


A Section that display "Upcoming Events" and Link that direct to that particular events

The appearance of the Calendar section brings up several ideas for developing an event-listing system. As the calendar not only lists events that are happening throughout the month, but also provides the ability of tracing backward/forward when needed. We think this feature is useful in terms of tracking and managing activities for students. While figures 3 opens us up with some interesting ideas, figures 4 provides a solution for connecting attributes between our website and social media.

## Figure 4

This section contain several social media icons that direct to the social media profiles



A paragraph of Acknowledgement and basic contact information

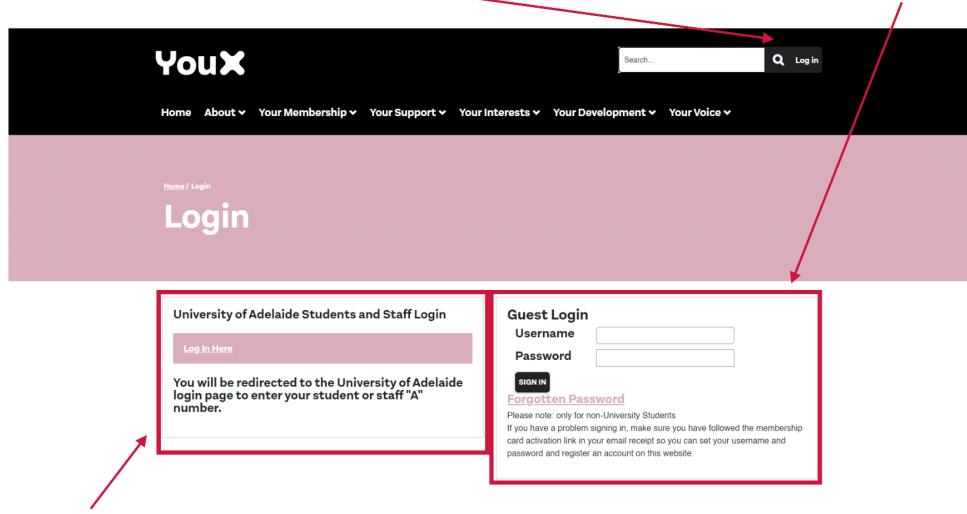
Latest Instagram & Latest Tweets part provide the connection between events/activities and Social Media's posts which result in better bonding (especially for students who are also familiar with Social Media). The icon section on the top left also provides quick access to our homepage on third party applications which enhance the user's experience in terms of convenience.

YouX is a website that assists us in structuring and building our Log-in/Register system (Figure 5).

## Figure 5

A Log-In Button allow quick access to this page

A simple but clear Login section that also contain option of "Forgotten Password"



A Section that allow user to log in through third-party website (UniAde in this situation)

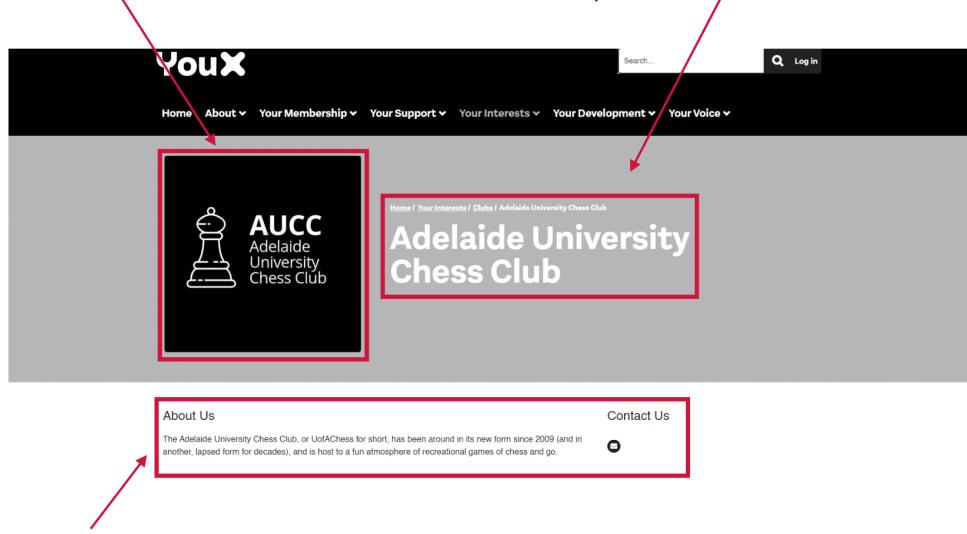
YouX's approach seems to be in line with ease of use. Their Log-In page offers a simple log-in interface but very clear in instructions and description in terms of how to log in. The page also provides the option of "Forgotten password" that enhances the user's experience in terms of providing an easy self-fixing solution. We could apply similar ideas towards our websites as well.

YouX's single club page is also remarkable as it provides a clean and standout outlook (Figure 6). The overall pages is dyed with a white background and black font, classic but yet effective in terms of delivering information for users.

**Figure 6**

A large club's logo display the attributes of the club

Full name of the Club in a clear font with white color (standing out from the theme)

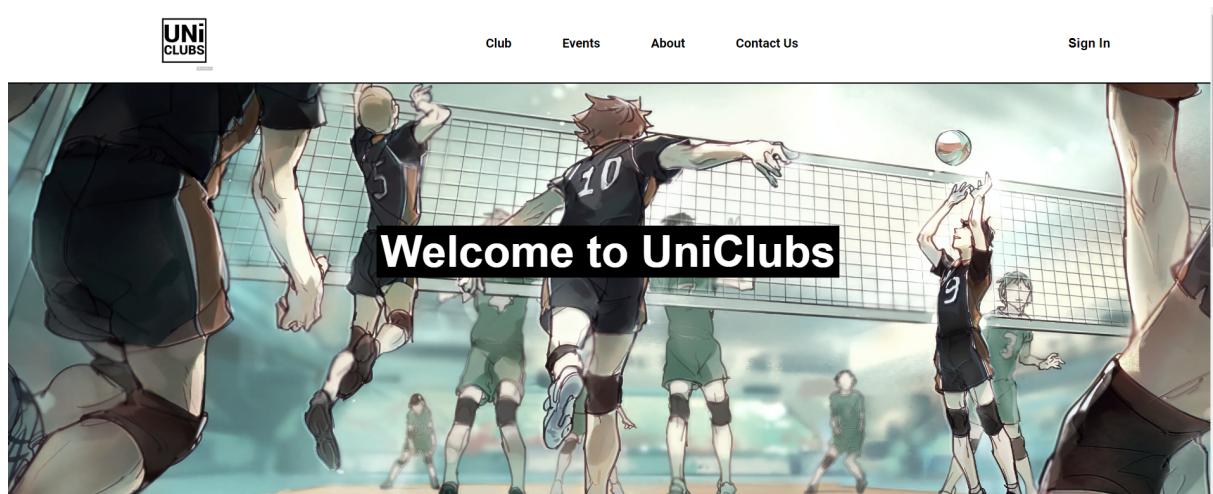
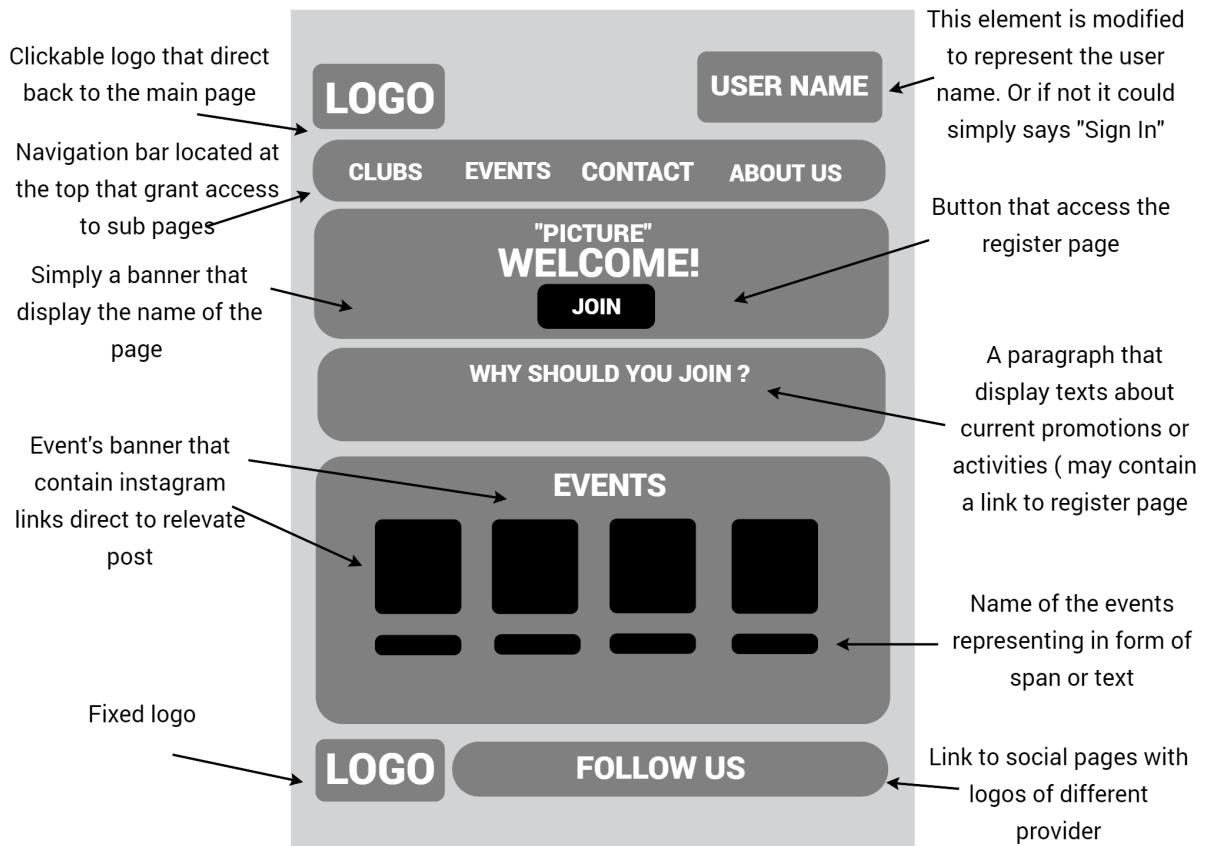


A brief description about the club functionality and activities as well as contacting option

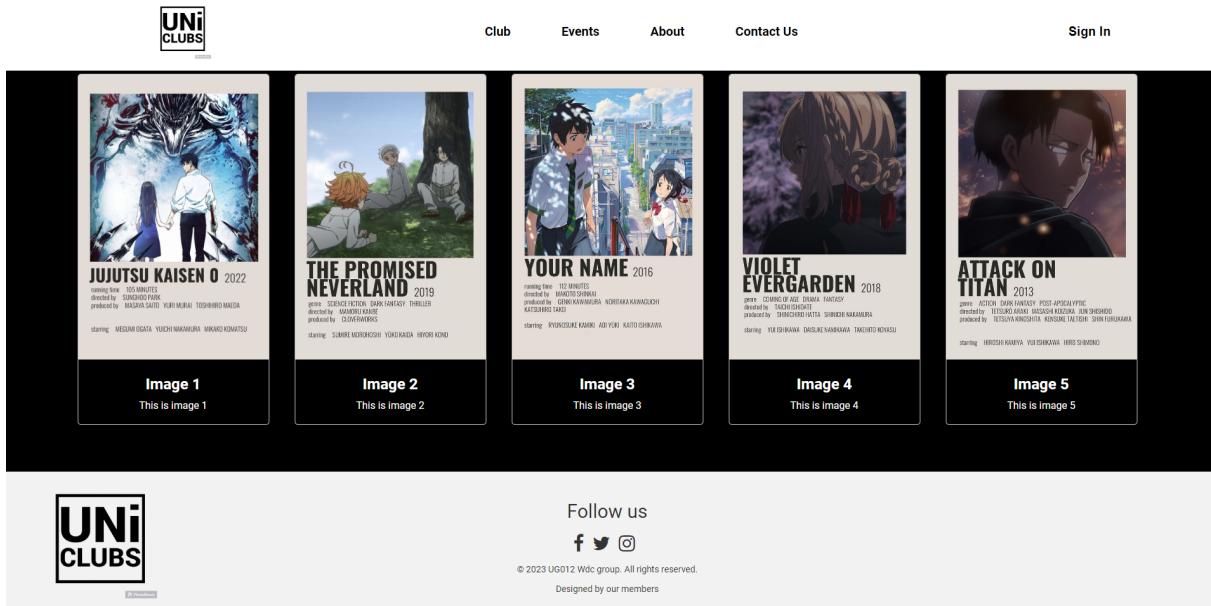
There are several other websites that we have visited and analyzed their effectiveness in terms of functionality and friendly implementation. Through this research we are inspired with different ideas and solutions that prepare us to develop our design.

# Design & Features

## 1. Main page



About Us



## Features

The main page is the first page that visitor view so it consist multiple links to others pages

The main page consists of three different sections: Header, Herotext & Footer. The header includes a clickable logo on the left that directs the user back to the top of the page besides are four different accessing options: Club, Event, About and Contact Us. Each of the following text sends the visitor to the corresponding pages providing that function/service while the “Sign-in” button further right directs the users towards the log-in page. All of these functions are located in a navigation bar that will stick to the top of the page even when scrolling down.

The middle section contains text and posters of upcoming events that clubs offer.

The final section is the footer which consists of social media icons that open the corresponding pages. Moreover, located at the very bottom is the “feedback” link that connects to the feedback page.

## Dimensions

The navigation bar has the width setting at 90% so it won't be too long when viewing while the whole header section is implied with the padding of 10px 8% which is the length of 10px and percentage of 8.

The banner is located right under the navigation bar which has the padding of 350px 20px and the centred text inside is sized at 70px.

The whole page is implied under a Roboto font of size 20px for the tag on the navigation bar, 30px for the section's label.

## Usability Heuristics

### Perceivable

The elements on the navigation bar will have the space between them as well as sections that enhance the idea of Perceiving. Moreover, by using monochrome colours, it creates a great contrast for the website.

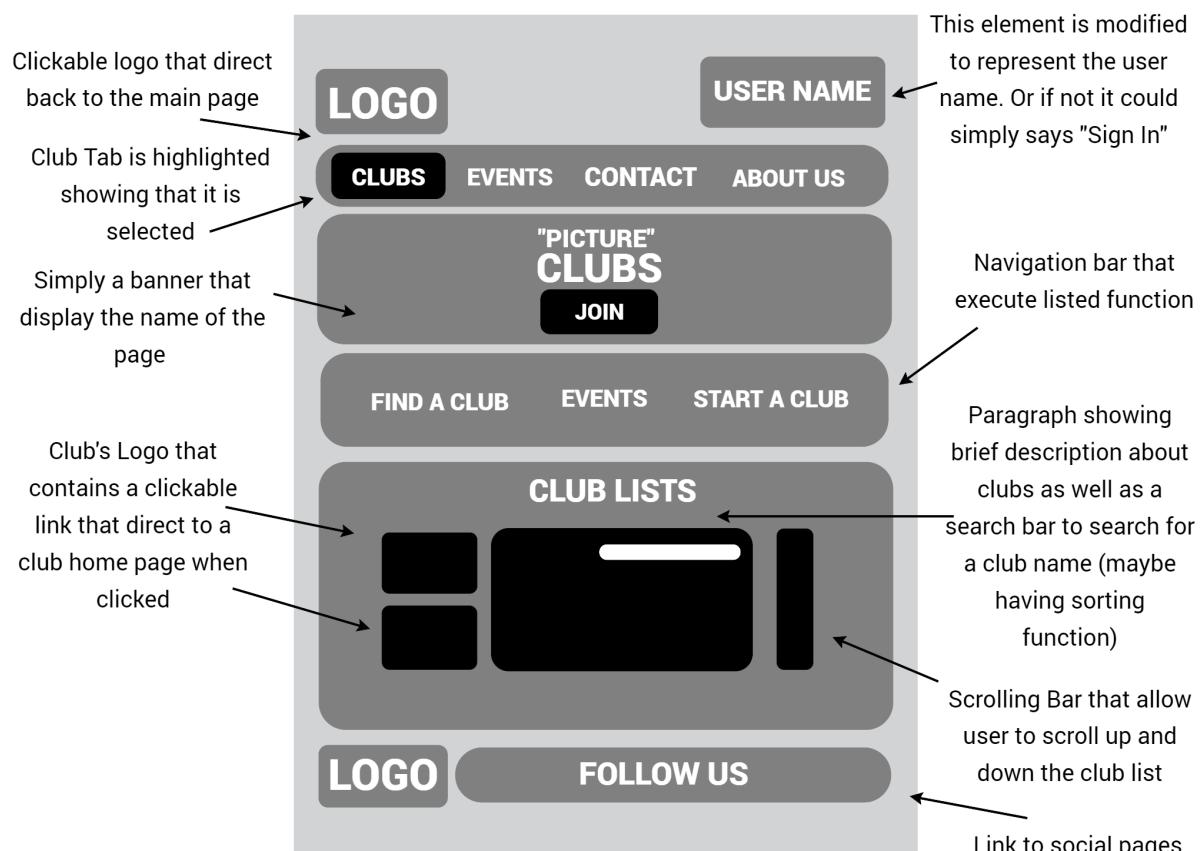
### Understandable

The text content is designed to be clearly readable and understandable with the use of large-size fonts. Moreover, there are clear labels for accessing different pages.

### Kinematic and Cognitive Load

To minimise kinematic load and cognitive load, the design applies multiple ways to assist the user in interacting physically through following the standard layout for a main page. Through reviewing, we have adjusted the design to reduce the kinematic. For example, we adjust the navigation to be one-lined which helps the user in terms of easier for seeking options. Moreover, we are also adding hovering effects that clearly label which options is pointing too besides the use of social media icons at the footer to provide visual aids

## 2. Clubs page





**Image Banner:** This banner displays the name of the page, features a "Join" button in the center. If visitors are logged in, the join button will be hidden, otherwise they're directed to the membership application.

#### Dimensions

This element spans the full width of the webpage. The height might vary depending on the image, but a typical size could be around 1200px \* 400px.

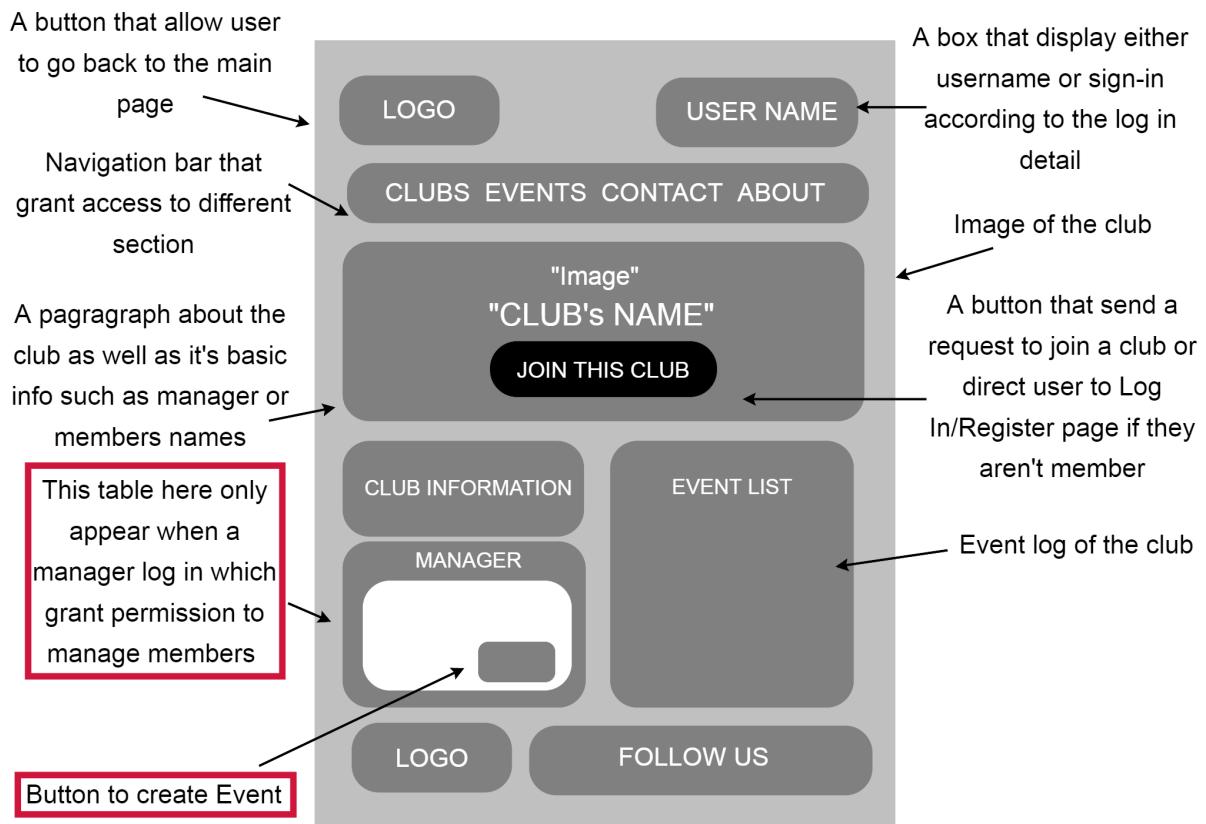
**Club List:** On the left side of the list, there's an interactive list showcasing all club logs, each containing a clickable link that directs to a club home page when clicked. When clicked on the other area of the log, it will update the club info section next to it. The section will show a

brief description about clubs as well as a search bar to search for a club name. On the right side of the list, there is a scroll bar that allows users to scroll up and down the club list.

### Dimensions

This list spans the full width of the webpage. The height should be fixed to 600px. Users can scroll down to get more info.

## 3. Single Club Page





# JOIN THIS CLUB

## CHESS CLUB

A chess club can provide a supportive and stimulating environment for chess enthusiasts of all levels, from beginners to advanced players. Whether you are looking to improve your skills, make new friends, or simply enjoy the game, a chess club can be a rewarding and enjoyable experience.

## MANAGER

- [Add Event](#)
- [Delete Event](#)
- [Create Post](#)

## EVENT LIST

- [Event1](#)
- [Event2](#)
- [Event3](#)
- [Event4](#)
- [Event5](#)

**Club Image Banner:** This banner features a conspicuous "Join the Club" button in the centre, designed with contrasting colours to stand out. When clicked, the website checks the visitor's login status. If the visitor is logged in, they're directed to the membership application. If not, they're redirected to the sign-up page to create an account first. This visually appealing feature serves as a compelling call-to-action, designed to boost engagement and encourage club membership.

#### Dimensions

This element spans the full width of the webpage. The height might vary depending on the image, but a typical size could be around 1200px \* 400px.

**Club Information:** Beneath the image banner, there's a dedicated information block that provides essential details about the club. It includes the club's name, description and recent updates.

#### Dimensions

This block could occupy around a third of the total content width. For a typical website content area width of 1200px, this would translate to approximately 400px wide. The height would be fixed to 400px. Users can scroll down to get more info.

**Manager Control:** Positioned below the club info section, there's a manager control section, only visible to the club's managers. This panel features two main buttons: "Create Event" and "Post Club Update". The "Create Event" button guides the manager through the process of listing a new event, while the "Post Club Update" button allows them to write and publish updates directly to the club's information section.

#### Dimensions

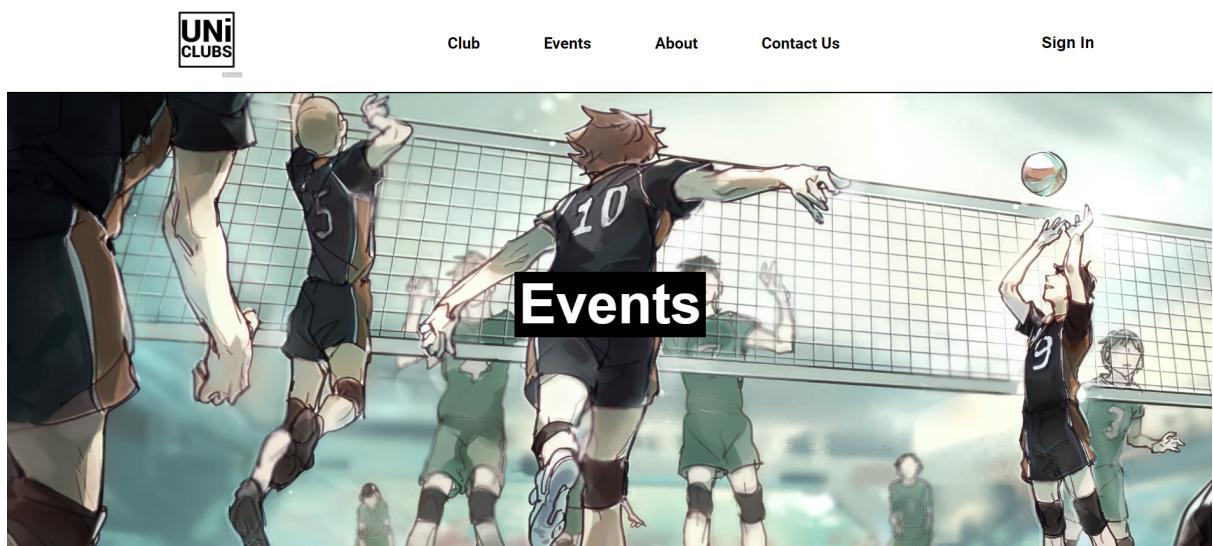
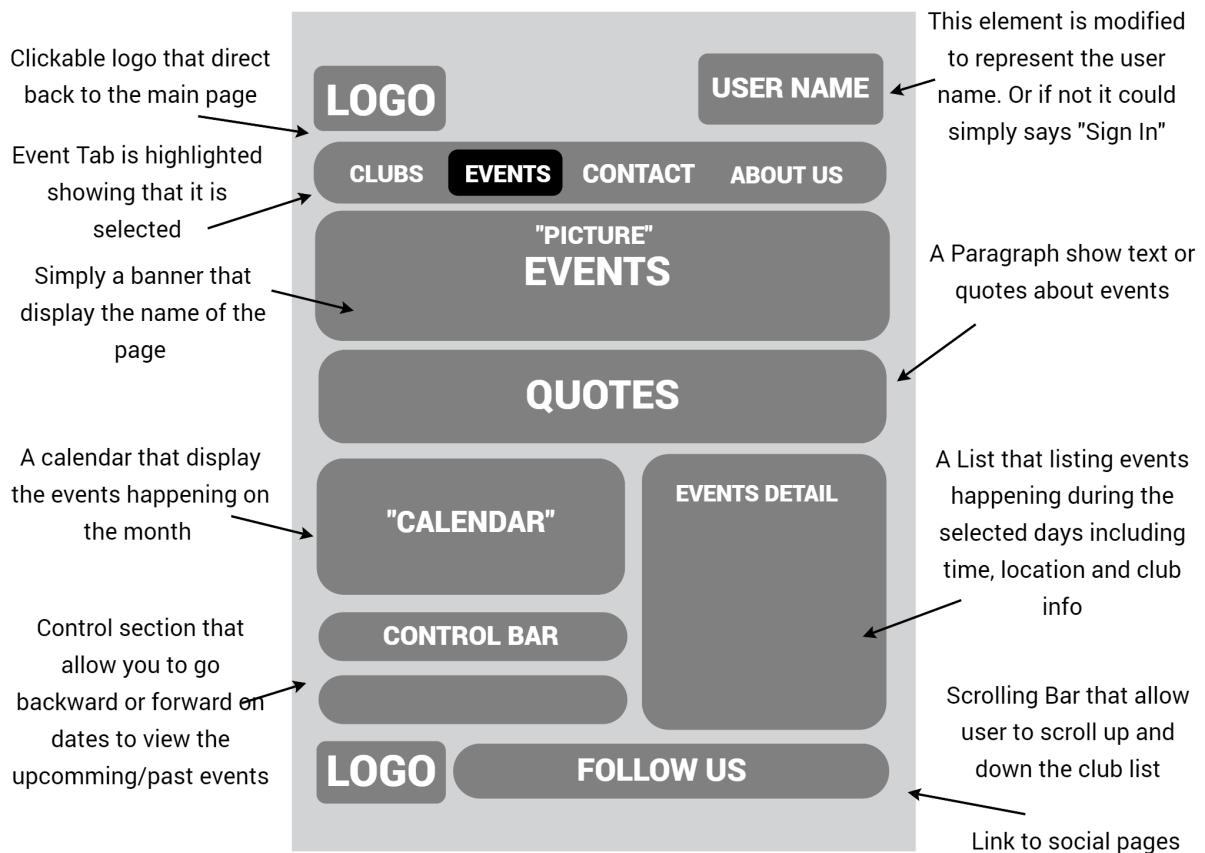
This panel would share the same width as the Club Information, i.e., around 400px. The height might be around 200px, depending on the size of the buttons and layout padding.

**Event List:** To the side of the events list, there's an interactive list showcasing upcoming club events. Each event listing includes details such as the date, time, location, and a brief description. By clicking on an individual event, users are directed to a more detailed page where they can find comprehensive information and an RSVP option.

#### Dimensions

This list would occupy about two-thirds of the page's width, approximately 800px. Height should be fixed to 600px. Users can scroll down to get more info.

## 4. Event page



Attending club events is a great way to enhance your personal and professional development. It provides an opportunity to network with like-minded individuals, learn new skills, and gain knowledge about different fields. Clubs often bring in experts in various fields to speak on topics related to the club's focus, allowing attendees to learn and ask questions. Additionally, club events can also be a fun way to meet new people, make friends, and participate in enjoyable activities outside of school or work. By attending club events, you can expand your horizons, improve your skills, and build meaningful connections with others.

May 2023

today < >

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

Today's events

- Event1
- Event2

## Features

The event page contains all of the upcoming events and past events information, due to the data storage cost, only events from last month and current month will be stored.

Quotes: The quotes are simply a few sentences that explains why we should join a club.

This will be made up with plain text.

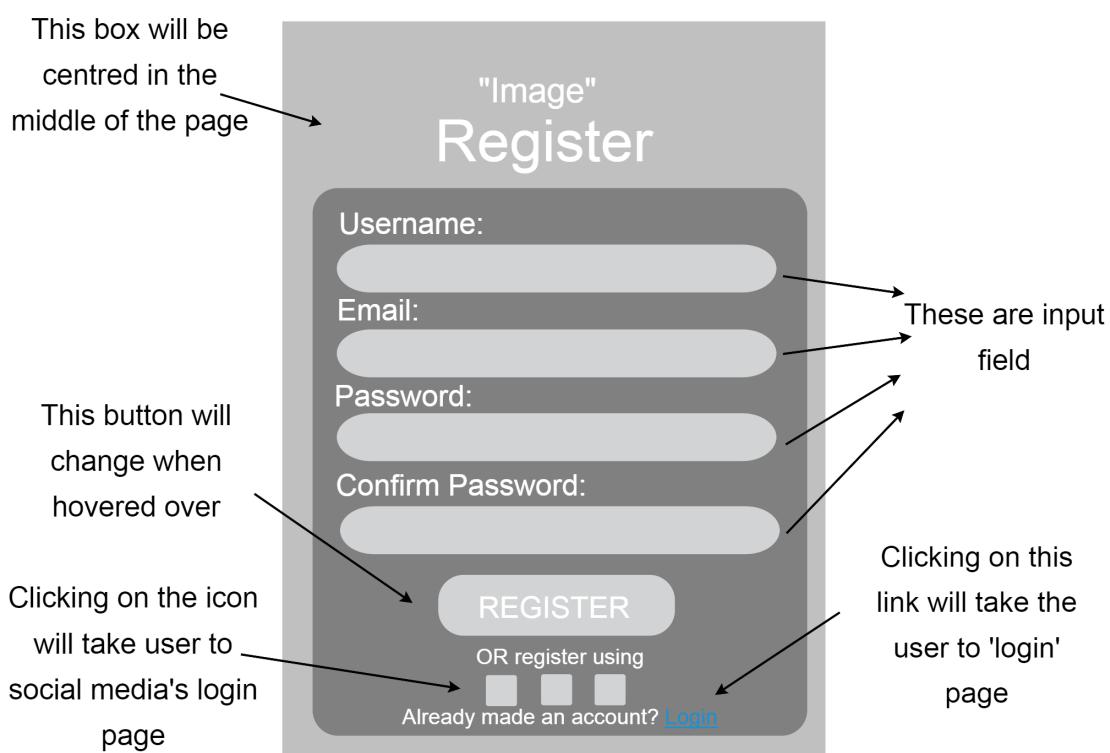
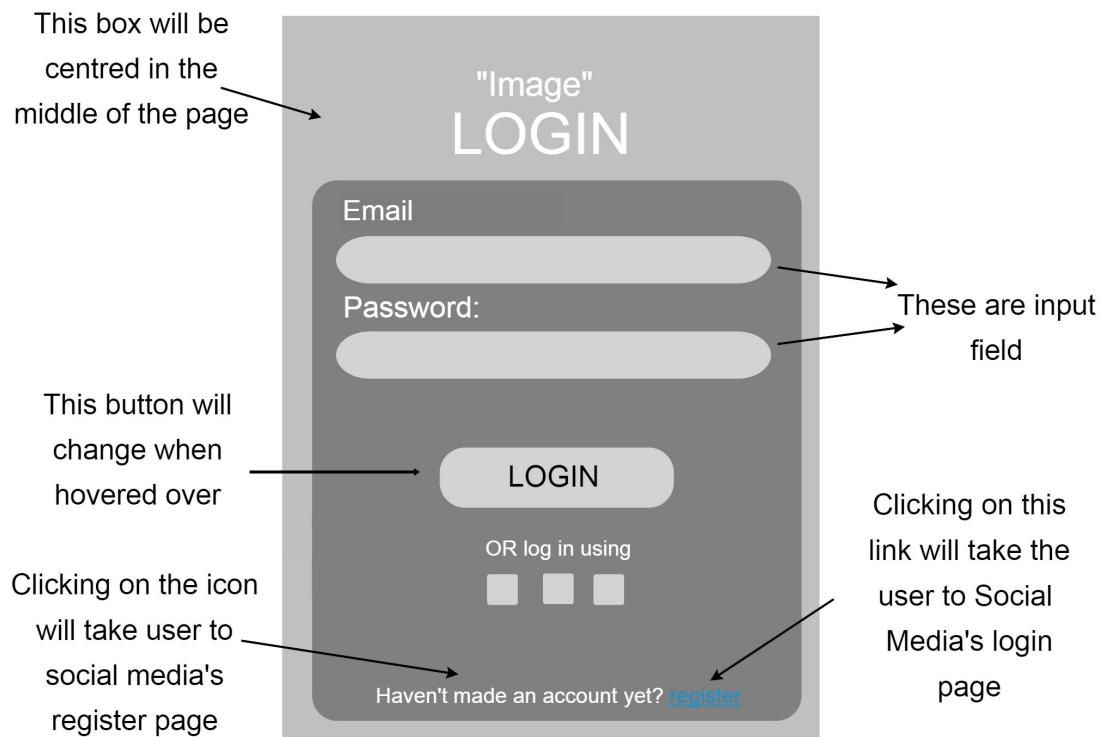
Dimension: The quotes will be displayed with plain text and will be positioned at the center of the page. The quotes' font will normally be arial, and will have some alternative font if arial is not available. This is because arial is easy and clear for most people to read.

Calendar: The calendar will be capable of clicking and choosing the date, when clicking the date, the content on the event detail will be changed, the event detail will contain a link to the actual event information page, there will be a basic image about the event, to show what kind of event it is. The control bar is on the calendar and using the control bar will be able to go to the previous month and the month you want, then by clicking the date, you will be able to see the events held on that day. The default position of the calendar will be on the day you are at.

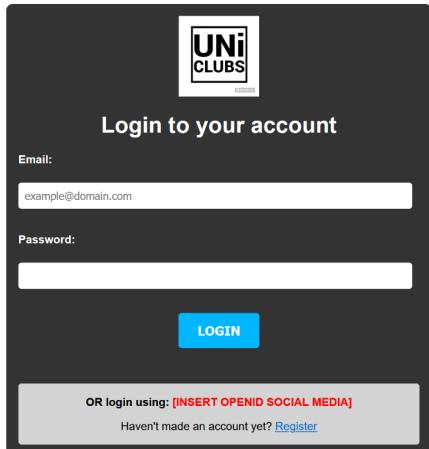
Dimension: The calendar will have a height of 400px and a width of 50% of the page, by doing this will make the calendar have exactly enough place to fit all of the date in a month without needing to scroll down, which lowers down the human workload. The control bar will be on the top of the calendar and have two buttons to help the user go to the month they want to go.

## 5. Login/Register page

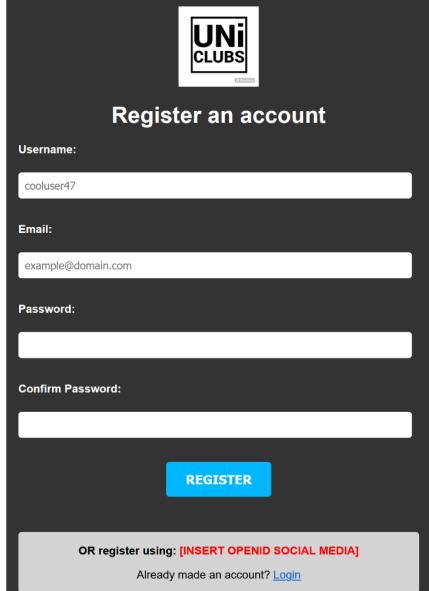
### Planned Designs



## Final Designs



The login page features a dark background with a central white rectangular form. At the top is the UNi CLUBS logo, which consists of the word "UNi" in a bold, sans-serif font above the word "CLUBS". Below the logo is a thin horizontal bar with three small squares. The main title "Login to your account" is centered above the input fields. There are two input fields: one for "Email" containing "example@domain.com" and one for "Password". A blue "LOGIN" button is positioned below the password field. At the bottom of the form is a grey footer bar with the text "OR login using: [INSERT OPENID SOCIAL MEDIA]" in red, followed by "Haven't made an account yet? [Register](#)".



The registration page has a similar dark background and white form layout to the login page. The UNi CLUBS logo is at the top. The main title "Register an account" is centered above the input fields. There are four input fields: "Username" (containing "cooluser47"), "Email" (containing "example@domain.com"), "Password", and "Confirm Password". A blue "REGISTER" button is located below the "Confirm Password" field. Like the login page, it includes a grey footer bar with "OR register using: [INSERT OPENID SOCIAL MEDIA]" in red and "Already made an account? [Login](#)".

## **Features**

Both the login and register pages feature a clickable logo towards the top of the page that takes the user back to the home page.

The login page uses the email for the first field, and the password for the second field. Upon clicking the 'login' button, the text input the user placed in the two fields is then sent to the server to check if it matches a known user.

If email and Password match -> login to account and send the user to the homepage

If email and/or password do not match -> output a message in red that states "your email and/or password are incorrect. Please try again."

Clicking the social media icon takes the user to that social media's login page. If that is successful, then the user will be logged into the account that is linked to that social media account.

The 'login'/'register' buttons will not work unless all of the input fields have valid inputs. In the case of the register page, the input contained in the 'password' field must be identical to the input contained in the 'confirm password' field.

If password and confirm password do not match -> output a message in red that states "Password does not match" or something to that effect

Clicking the 'register' button creates an entry in the account database using the inputs contained in the 'username', 'email' and 'password' fields that can then be referenced by the login function.

After logging in or registering, the user is redirected to the home page.

Both pages contain a link to the other one towards the bottom of the page to make access easier to navigate to the page the user wants to access.

## **Dimensions**

In both pages, the curved dark grey box area normally has a width of 600 pixels but has a maximum width of 90% to allow it to fit lower resolutions. In the login page, it has a height of 560 pixels. In the register page, it has a height of 760 pixels.

The club logo image (represented by "image" in the original diagrams) has a height of 100 pixels and is horizontally centred.

The headings in both pages use the default h1 font size and are centre aligned. The login/register submit button is centred horizontally and has a font size of 16 pixels. All other text in the login and register pages has a font size of 14 pixels.

The input fields all have a width of 95%.

## **Usability Heuristics**

### Perceivable

The elements inside the grey box will have spaces between them so they can be easily distinguished from one another (this is not reflected in the originally planned design images but has been changed for the final design). The use of monochrome colours allows for an easily contrasting colour palette (the login/register submit button will be coloured bright blue to make it pop out) that is accessible to colour-blind people. The social media icons will have alt text that makes it clear what each icon represents. The alt text on the club logo will say “back to home page” to make it clear that it can be clicked to return to the home page. There will be no pop-ups or hover items (outside of the login/register submit button changing colour when hovered over).

### Operable

There will be no flashing or timed content, and the pages can be navigated using a keyboard only and touch controls only.

### Understandable

The text content is designed to be clearly readable and understandable with explicit labels for what each input box is for. An error message appears explaining what the user did wrong when the forms are filled out incorrectly. The pages are designed to follow the standard layout of login/register pages, i.e. everything contained in a box close to the centre of the page, links to the other page at the bottom etc...

### Robust

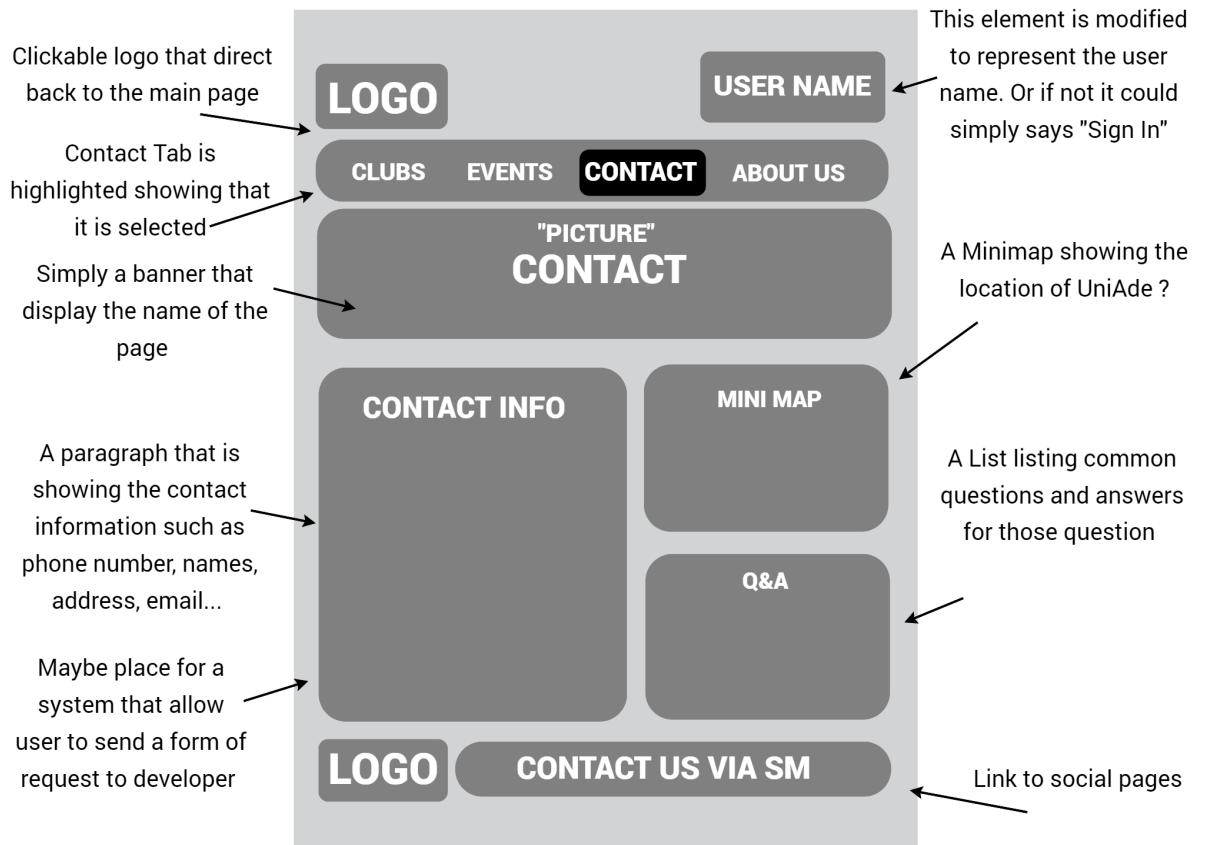
The login and register pages will use semantic html and metadata to improve compatibility with user agents such as assistive technologies.

## **Kinematic and Cognitive Load**

Cognitive load is minimised by following the standard layout of login and register pages that other sites use. The social media icons will follow the standards set by their respective companies. There are no unnecessary elements in the pages to avoid clutter. No jargon is used in the pages.

Kinematic load is minimised by having the elements next to each other in a box. All of the controls are always available and there are no menu layers. The elements could have been placed on the edge of the screen to further reduce the kinematic load, but this would conflict with minimising the cognitive load by making the page no longer conform to the standard so it was decided against.

## 6. Contact page



### Where to find us?

The University Of Adelaide

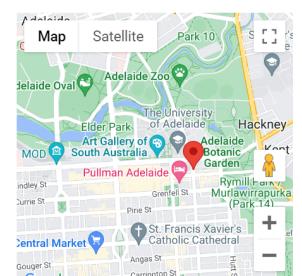
### How to contact us?

Tel:12345342134

E-mail:123432@123321.com

### Office hour

8 am. - 4pm. Monday  
8 am. - 4pm. Tuesday  
9 am. - 5pm. Wednesday  
8 am. - 4pm. Thursday  
8 am. - 4pm. Friday  
Closed Saturday-Sunday



### Q & A

- Who are we?
- What should I do if server crack down?

## Features

Contact info: Under the Contact picture, there is the contact info section which includes the position, contact details and working hour. The Contact info will still be plain text cause they dont require to change a lot.

Dimension: The Where to find us, How to find us and Working hours will be shown in h1 size, and the information will be displayed in a list like way. The text will be once again, arial, for this will increase the readability for disabled people.

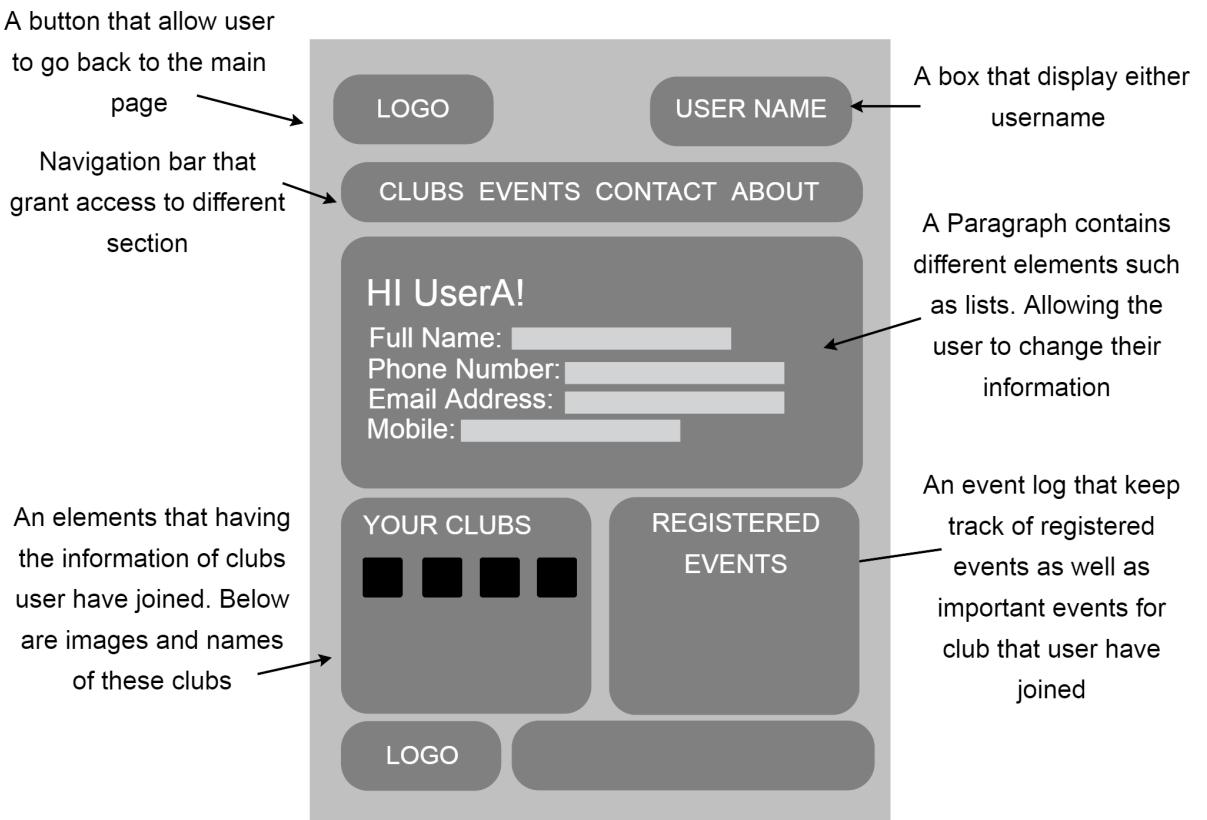
Mini Map: The minimap section will display the location of uni of adelaide on a minimap, the map is from google map using api, so it acts like a regular map which means you can zoom in and out and find the location.

Dimension: The minimap has a height of 350px and a width of 350px, this size is big enough to let users know the location without stare at it for a few seconds.

Q&A: This section lists a number of solutions to usually appeared problems, by clicking on the link, you will be redirected to the solution page.

Dimension: The Q&A is in the same div as the map, these absolutely makes the page cleaner and decrease the effort for the user to find the answer they want.

## 7. User page



[Clubs](#)[Events](#)[Contact](#)[About Us](#)[Sign Out](#)

Hi

Phone Number:

Email Address:

Mobile:

### Change Password

Current Password

New Password

Confirm New Password

### Your Clubs

- Chess Club
- Book Club
- Basketball Club
- Math Club
- Science Club

### Your registered Events

- [Event1](#)
- [Event2](#)
- [Event3](#)
- [Event4](#)
- [Event5](#)



Follow us



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Designed by a Sam,Xi,Marcus & Alfred

[Feedback](#)

**User Information:** Beneath the navigation bar, there's a dedicated information block that provides essential details about the user. It includes a form containing personal info such as full name, phone number and email address, allowing users to change their information and save.

#### Dimensions

This section spans the full width of the page, which is about 1200px. The height would adjust automatically depending on the number of elements.

**Club List:** Beneath the user info section on the left side, there's a list showing users' joined clubs.

**Events list:** Beneath the user info section on the right side, there's a list showing users' registered Events.

#### Dimensions

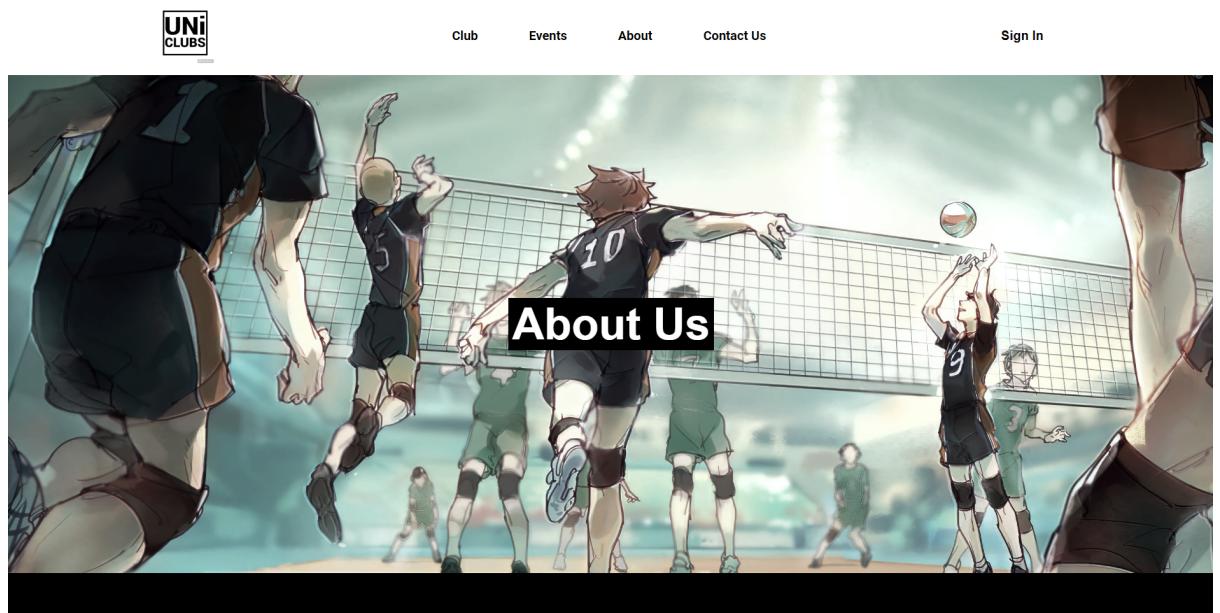
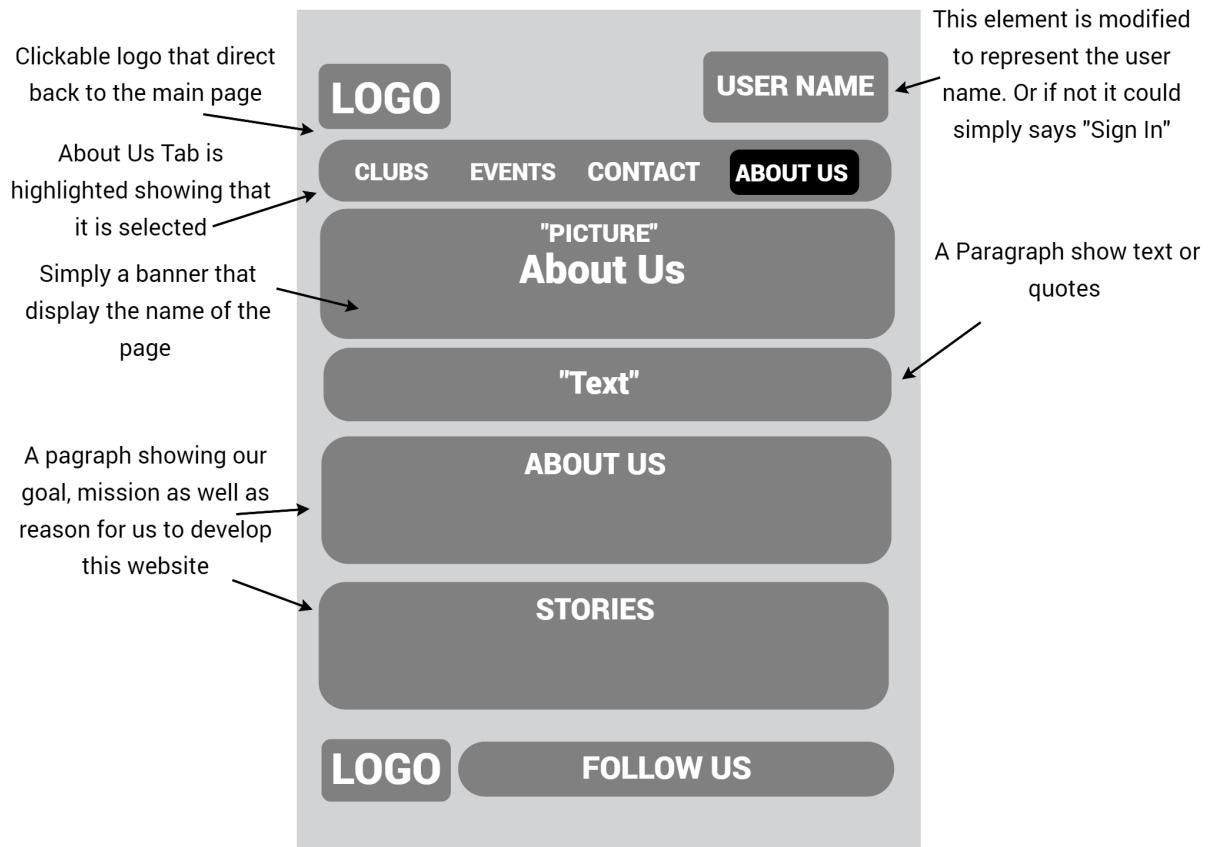
This list would occupy half of the page's width, approximately 600px. Height should be fixed to 600px. Users can scroll down to get more info.

**Event List:** Beneath the user info section on the right side, there's a list showcasing users' registered events as well as important events for clubs that users have joined.

#### Dimensions

This list would occupy half of the page's width, approximately 600px. Height should be fixed to 600px. Users can scroll down to get more info.

## 8. About us page



## About Us

UniClubs is a community of like-minded individuals who share a passion for creating a club page. We strive to provide a welcoming and inclusive environment where members can connect, learn, and grow together.

## Our Story

Our club was founded in 2023 by a group of students. We welcome anyone who shares our passion for club's activities to join us. Membership benefits include keeping in touch with latest events. To become a member, please fill out our online membership form. We also organize a variety of events throughout the year. Check out our events calendar for upcoming events.

## Contact Us

For more information about our club and events, please contact us at: [Here](#)

## Features

The About Us page serving the idea of sharing our story and purpose, also provides an option to contact the dev team. Therefore, it's not built with a lot of features. The page shares the common navigation bar with others pages that provide fast navigation. Moreover, at the "Contact Us" the page also include a link - linking towards contact page to assist user in term of contacting us.

## Dimensions

The page is also using Roboto as the main font. However, there is a slight different in term of font size, as h1 text is set with 50px font size and p text is 30px.

## Usability Heuristics

### Perceivable

Inheritage the colour and structures of other pages, the pages is also maintaining its perceivable characteristic through monochrome colour tone and simple design

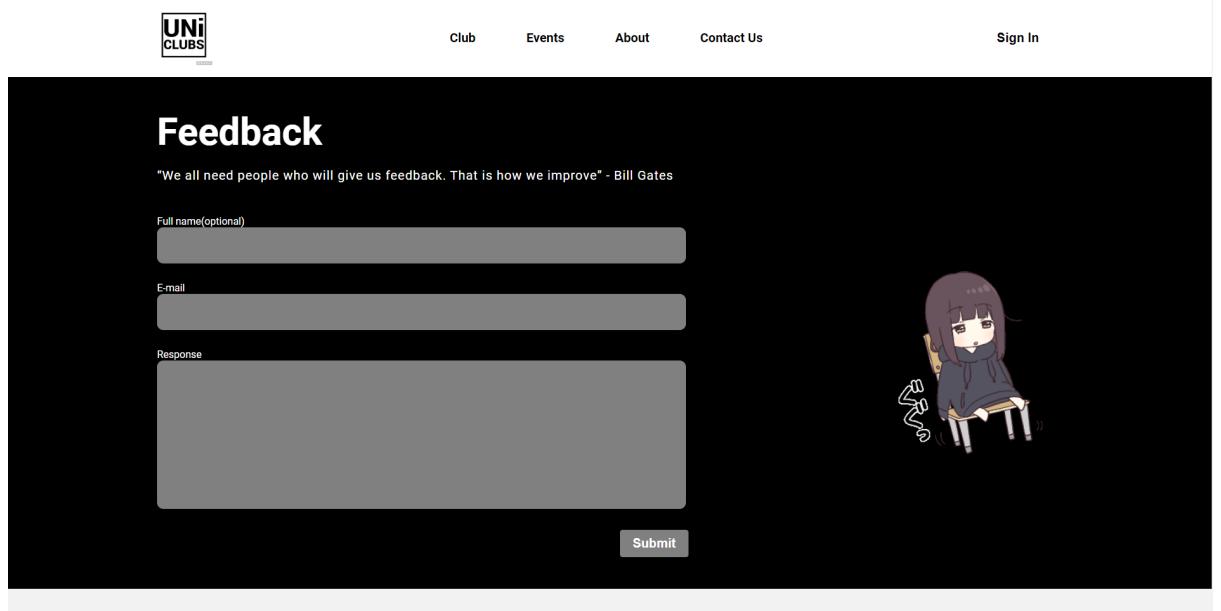
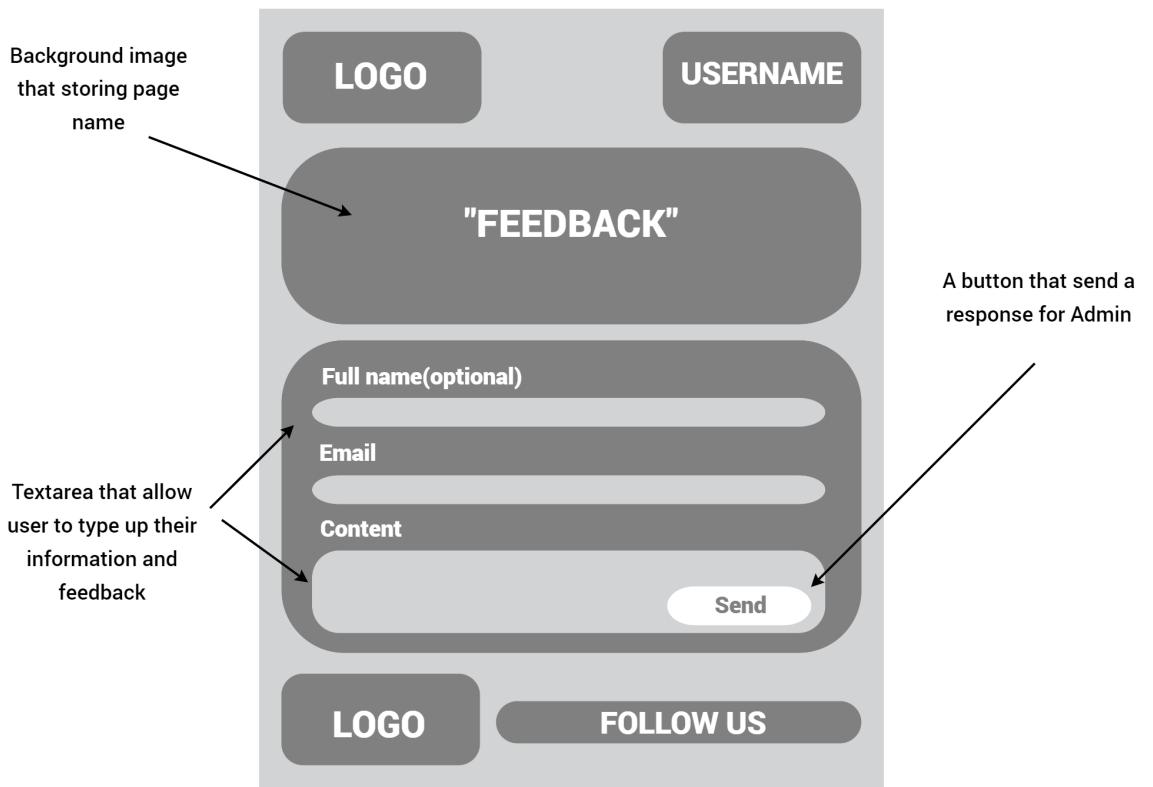
### Understandable

The text content is designed to be clearly readable and understandable with the use of large-size fonts and label of section.

## Kinematic and Cognitive Load

To minimise kinematic load and cognitive load, the design applies multiple ways to assist the user in interacting physically through following the standard layout for an about us page. For example, the page is significantly modified from its design as it helps reduce the amount of irrelevant information such as the appearance of image.

## 9. Feedback Page



## **Features**

A feedback page should be accessible through a button located at the very end of the main page. The page serves as a communication tool between users and the development team which is built in a structure of a feedback form.

The website is broken down into two sections, the top section is used to display the page title ( contribute to maintaining the design consistency of the page ). The lower section contains multiple text-area that requires the user's input and a button that sends the form which is stored in the format of SQL.

## **Dimensions**

In the page, the curved dark grey box area normally has a width of 800 pixels

The box also having an auto height to help it fit better with resizing

The image on the right is set with 420px.

## **Usability Heuristics**

### Perceivable

The elements on the navigation bar will have the space between them as well as sections that enhance the idea of Perceiving. Moreover, by using monochrome colours, it creates a great contrast for the website.

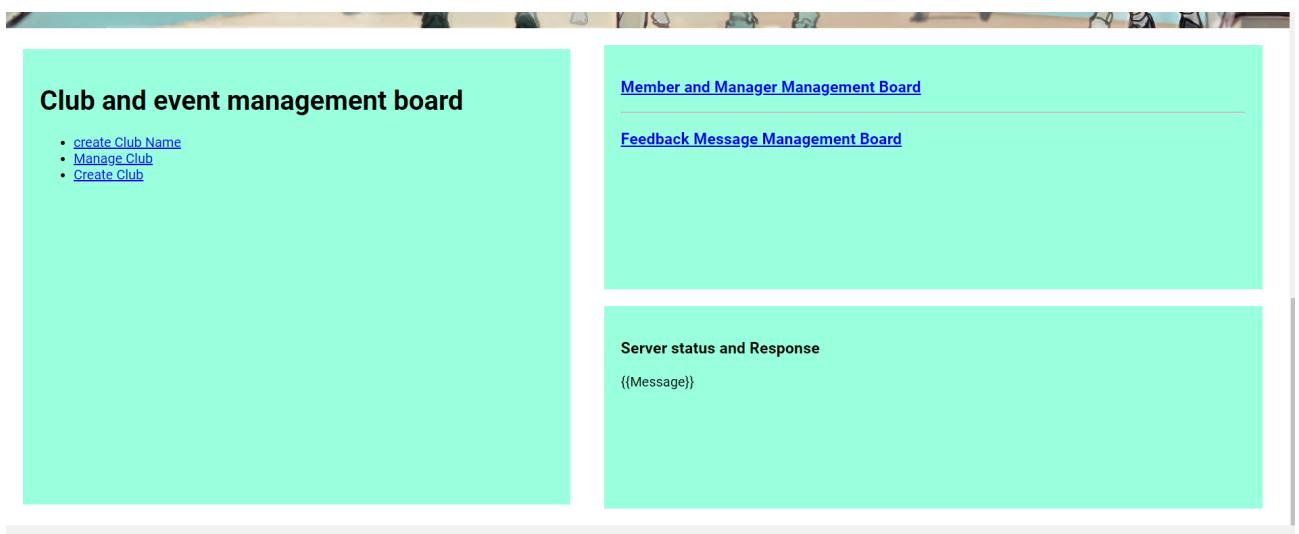
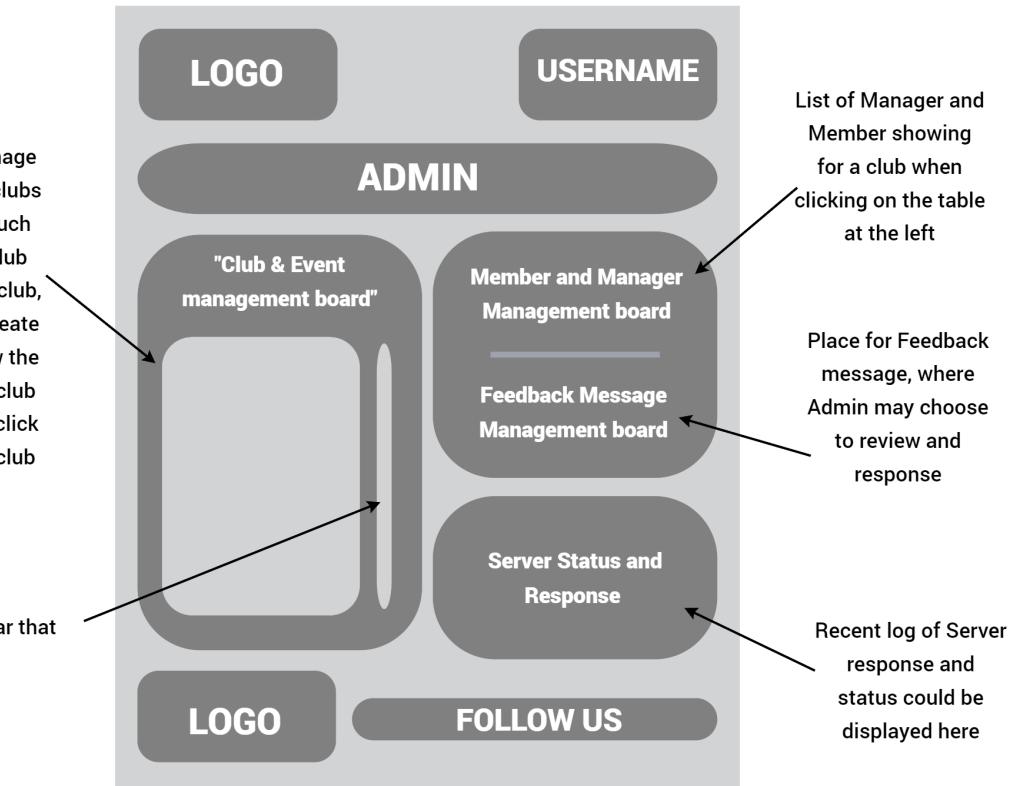
### Understandable

The text content is designed to be clearly readable and understandable with the use of large-size fonts. Moreover, there are clear labels for accessing different pages.

### **Kinematic and Cognitive Load**

To minimise kinematic load and cognitive load, the design applies multiple ways to assist the user in interacting physically through following the standard layout for an feedback page.

## 10. Administration page



The admin page is used to manage clubs and events, see the current members and managers of each club, feedback from users and more importantly, the log of the server. Club & Event management board: This board will include a number of options like changing club name, managing club, etc. Click the button will be redirected to another website to do the things you choose to do.

Dimension: width is 40% and height is 500px to contain a number of buttons.

Member and Manager Management board: This table can be clicked to show a list of managers and members on the left.

Feedback Message Management board: Contain a list of feedback, there will be buttons to review and respond to the feedback.

Dimension: These two boards are in a div with a horizontal line divide them up. Width 170% and height 250px.

Server status and Response: Will display recent log of Server response and status of the server.

Dimension: In a bigger div that combined the board and server log together, so they are in the same vertical line, which makes the page look cleaner. This div have a hight of 200px and width 170%.

## Review

### Internal Review

For the kinematic and cognitive load testing, as well as the usability heuristics, please look above to our descriptions of each of the design images.

### External Review

We had one of the course instructors look over our initial planned designs to check which parts of the design needed improving. He was happy with the designs but proposed some alterations to how they were presented. He suggested that the design images could be supplemented by screenshots of their respective webpages to make it more clear what the designs actually look like, and that we should describe the positioning of the elements. These changes have since been implemented into our designs.

## Data plan

See data\_plan.xlsx for our data plan.

## Database Schema

See database schema in planning folder

## **Reference List**

*USASA Website.* USASA. <https://usasa.sa.edu.au/clubs/>

*University of South Australia Website.* UNISA.  
<https://i.unisa.edu.au/students/experience-unisa/clubs-societies/>

*YouX Website.* YouX. <https://youx.org.au/interests/clubs/clubindex/>

*Adelaide University Clubs Website.* Adelaide.  
<https://www.adelaide.edu.au/clubs/>

*Monash Clubs Website.* MSA.  
<https://clubs.msa.monash.edu/joinnow/clubs-and-societies/>

*UNSW Clubs Website.* UNSW. <https://www.arc.unsw.edu.au/clubs>

*University of Melbourne Clubs Website.* UniMelb.  
<https://umsu.unimelb.edu.au/buddy-up/clubs/>