

# Climbing Social Media Website

## Brainstorm

→ Post updates about climbs which includes:

- ◆ Id
  - User id which will be a joining table
- ◆ Name
- ◆ Grade
- ◆ Colour(if applicable)
- ◆ Location
- ◆ Date Completed
- ◆ Difficulty Ranking(out of 10)
- ◆ Description/thoughts on climb

→ Have an account system with:

- ◆ Id
- ◆ Username
- ◆ Password
- ◆ Profile picture
- ◆ Climbs completed:
  - Climb id, which will be a bridging table with the climbs they have done as multiple users can do multiple climbs

→ Have a page with events

- ◆ The events will have a date
- ◆ They will include info which is inserted by the user
- ◆ They will have posted results once it is complete
- ◆ They will have a location they are set at
- ◆ They will have information such as:
  - Id
    - User id, this should be in a bridging table of the results since multiple events can have multiple participants
    - Results will also be in this bridging table which will have the users result

- Tags:

- This will be a bridging table with event id and tag id
- Speed climbing
- Difficulty Climbing
- Indoor
- Outdoor
- Club

→ Have a map of climbing spots around New Zealand with information about them all:

- ◆ Id
- ◆ Name
- ◆ Location
  - Location may be a bridging table since multiple climbs can have the same location
- ◆ Indoor/Outdoor
- ◆ Difficulty
- ◆ Reviews(?)
- ◆ Climbing Locations API

All the info can be stored on a database which has constant POSTs from users, the climbing community is trustworthy but I could try to figure out security safety.

The map of climbing spots should be prioritised as it is quite a unique feature and will be helpful for many climbers. It would be limited to NZ and could be an interactive map.

Perhaps it can have a suggestion feature if people know other climbs.

# Climbing Website Plan

## Description of Project

My project will be a website which can be utilised by climbers around New Zealand to communicate and find climbs to do.

It will have a page where you can find climbs around New Zealand and learn about them so that if climbers are in need of a climb to do they can use this website to find one.

It will also have a forum-like page where people can post climbs they've done in certain locations and communicate with other climbers.

It can also have an events page so climbers can be updated and know about upcoming climbing events, such as competitions, and there could be a club feature to post updates about those.

It will be for any climber in New Zealand who wants to find climbs to do or wants to communicate with the climbing community

## Database Notes

The database will have a multitude of tables which can all be linked when needed.

Potential tables may be:

★ Post

- id
- name
- grade
- colour
- location

- date
- difficulty
- description
- Account\_id → FK

## ★ Account

- id
- username
- password
- profile\_picture
- Account\_Climb(bridging table)
  - account\_id
  - climb\_id

## ★ Event

- id
- name
- date
- description
- host\_id → FK(from account)
  - Event\_Account
    - event\_id
    - account\_id
    - result
  - Event\_Tag
    - event\_id
    - tag\_id

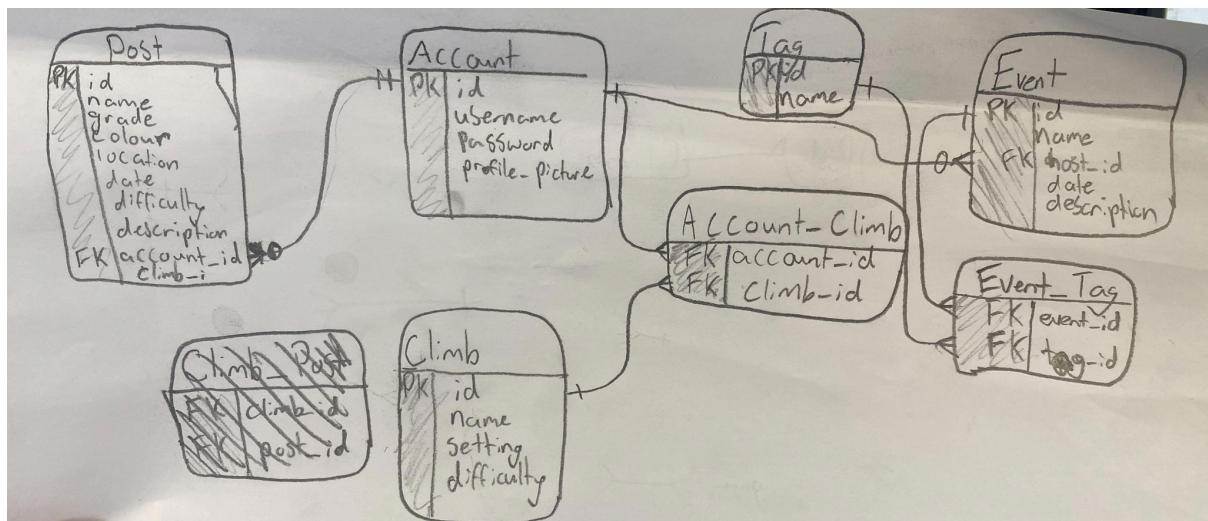
## ★ Tag

- id
- name

## ★ Climb

- id
- name
- setting → indoor/outdoor boolean
- difficulty

## ERD Diagram



## Tools I've Used

- SQLite3
- Python
- HTML
- CSS
- JavaScript
- VsCode
- GitHub
- Chrome Dev Tools
- Flask

## Website Layout and Design

I like to associate the colour yellow with climbing as that is what I often have seen used to represent it in my many years of climbing. So I searched online for some yellow colour palettes and came across this one which I like:



FBFBF5

FEED9F

F7D327

D0A823

504C41

I decided for the moment the simple font **roboto** will work.

I made a rough layout for the website using the font and colours I decided with:

Climbing

Home Map Events Posts Account

.....Info.....

.....Info.....

There will be the navbar at the top which will lead you to the different pages, and each page will have varying layouts.

**Home** will have the basic website information explaining to users what it is about and it may include updates I add to it or display certain features. It could also maybe display some recommended climbs based on users previous climbs they have completed.

**Map** will be an interactive map which displays the climbs in New Zealand, the user can search for climbs using this feature and learn information on them to perhaps go and climb them.

**Events** will be a page which users can use to post climbing events that they may be hosting so that people can sign up, it should also display the results of events once they have ended.

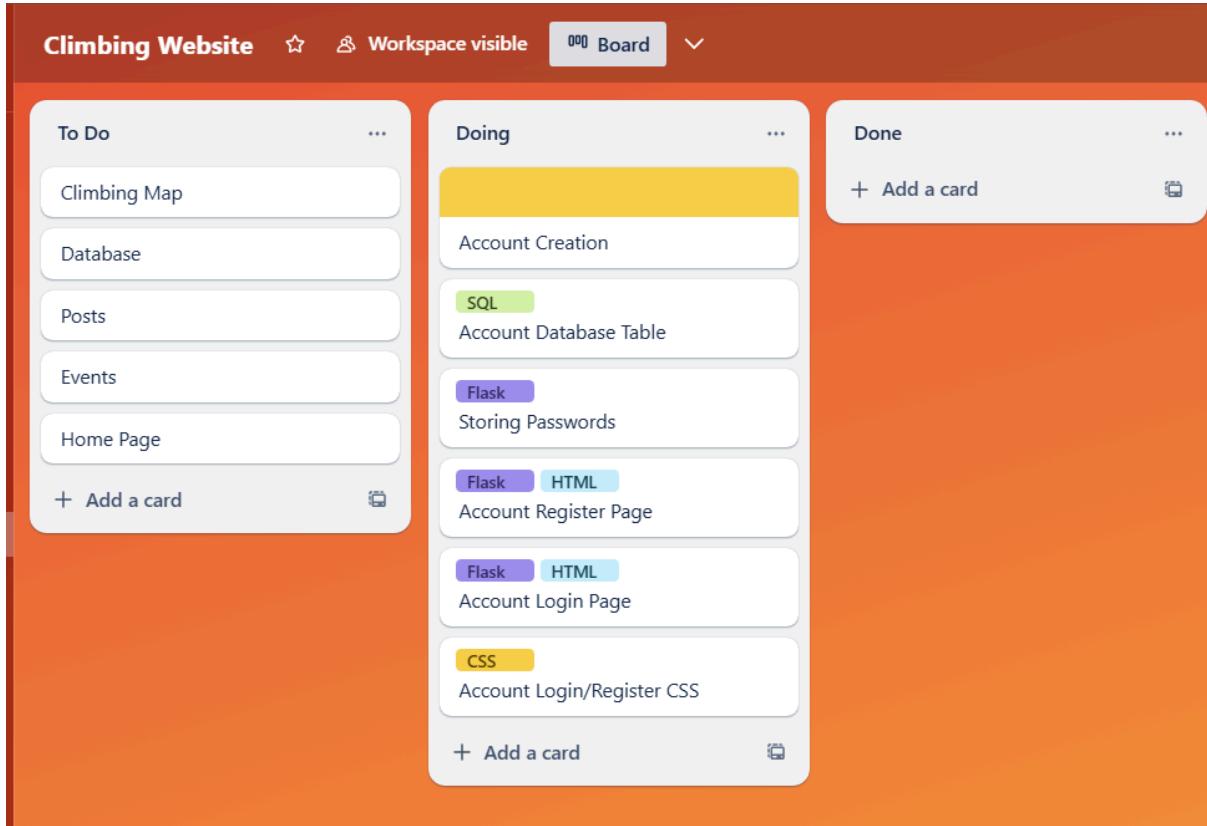
**Posts** will be where users can make posts and updates on anything climbing related such as certain climbs they have completed or they may use it as a forum page to communicate with other climbers.

**Account** will be the settings page where users can view their account and update certain things such as username and profile picture, they should also be able to see information about themselves, perhaps things like climbs they have completed and events they have participated in.

Here are the main routes and functions for each page of the website, and an SQL Query which may be used along with it:

<pre>@app.route("/home") def Home():</pre>	<pre>SELECT id, name, difficulty, setting FROM Climb WHERE difficulty BETWEEN 19 AND 21 AND setting = 0;</pre>	This query will give recommendations where the climbing difficulty is between a certain range and the setting is indoor. These numbers will be taken from the users logged climbs taking the average difficulty and the most common setting. Then these recommendations can be displayed on the home page.
<pre>@app.route("/map")</pre>	<pre>SELECT name FROM</pre>	This could be used in

def Map():	Climb WHERE setting=0;	the map page to allow users to filter the different climbs on the map and in this case where setting is false, so it is indoors.
@app.route("/events") def Events():	SELECT Event.name FROM Event JOIN Event_Tag ON Event.id = Event_Tag.event_id JOIN Tag ON Event_Tag.tag_id = Tag.id WHERE Tag.name IN (speed, indoor, Over 16);	This will be used in the events page if the user is trying to find certain events so they will get results of events which have the tags speed, indoor and over 16. There will be a variety of tags events can have so the user can find events with those tags.
@app.route("/posts") def Posts():	INSERT INTO post (name, grade, colour, location, date, description, account_id)  VALUES ('Over the Moon', '24', 'White', 'YMCA', '2024-10-5', 'My favourite climb.', 1);	This is an example of the SQL query to create a new post. It will insert the data into the database and the user can input their data which will then update the website with the new post.
@app.route("/account/ <int:id>") def Account(id):</int:id>	UPDATE Account SET profile_picture = 'image link' WHERE id = 1;	This code will be used to update/change the users profile picture, changing the data to their new input.



This is the trello board I will be using to work through each step of my project. When I complete one 'milestone' such as account creation, climbing map, posts, etc. I will add more details to each one and work through them step by step.

## Justification

I will be making this website because I think it could benefit the New Zealand climbing community by organising a central online place where all things climbing related can be found. It can help people to find new locations and places to climb if they are looking for places to climb and it can also be used for the climbing community to communicate about the climbing they've been up to. It can be used by climbing clubs or anyone who is interested in hosting a climbing event as well. For example some people may want a new/some place to climb but mightn't know where, so they can go to this website and to the map page to filter for climbs they are interested in and it can show them the locations. So

the purpose of this project is to aid the climbing community with a website which can help them in a variety of ways.

# Development

## Admin Account Login

Here is an admin account login to view the admin page and features:

**Username:** Admin

**Password:** Adminacc

## Sprint 1 - Basics

In this sprint I plan to create the foundation of my app, with the main pages and working routes. I will also have a rough CSS styling of it, though not focus on it too much. I will also implement signing up and logging in, with profile pictures too. Though everything will be rough and will be improved upon later.

There wasn't much to say about this sprint as most things were reasonably simple and rough.

I made a register form using flask-wtf forms and incorporated validators so that passwords have to be a minimum length of 8 characters, and usernames can't be anything explicit.

I also have a confirm password field in case the user mis-types their password, and I have a profile picture which is optional and there is a default profile picture if the user doesn't input one.

# Register

©Miguel Monreal 2025

## Login

Username:  Password:

©Miguel Monreal 2025

This is the default profile picture if the user doesn't input one.



25/08/25

## Sprint 1 Data Integrity

### Accounts

When logged in a user can view their account information (the shown page is the updated version of the account page which is explained later in this document).

18/06/25

## Sprint 1 Feedback

Person	Who	Feedback	How it Helps
Gertrude	Advanced design student	<p>The font is quite bland.</p> <p>You could add visually appealing logos</p> <p>Label the text boxes for registering so we know what is what and style the login and register</p> <p>Shrink the copyright and/or move it to the bottom footer</p> <p>Could add a profile picture crop function thing</p>	<p>I can make the website more visually appealing to have a more interesting font and some sort of logos, also moving the footer to the bottom of the page.</p> <p>Adding labels to the text boxes for registering and styling the login/register page will make it easier for the users.</p> <p>Allowing the user to crop their profile picture will allow for more control.</p>
Isaac	Programming classmate	Auto login once you have registered to make it easier for the users.	This will help to make it easier for users and make them

			have to do less work. Like registering then logging in.
Mum	Reliever teacher and highly experienced in sports	Make the register form bigger. Registration needs to be clearer on what to do. Be able to change profile picture.	This helps me to now know what needs changing in the registration form, and changing profile pictures will be something that users will desire.
Hayden	Climber	Password recovery and feedback.	This will help to ensure users don't lose their account, though I may implement this in the future if I have time as it may be difficult and isn't incredibly necessary for my outcome yet.

First I wanted to address my register form and make that more accessible for users by revamping the CSS.

This is my plan for it:

Username

Password

Confirm Password

Profile Picture

Register

Here is the new form CSS fully implemented:

## Register

USERNAME

Miguel\_Monreal

PASSWORD

.....

CONFIRM PASSWORD

.....

Upload Profile Picture



Register

## Login

USERNAME

.....

PASSWORD

.....

Login

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### Add Route

ROUTE NAME

.....

GRADE

.....

AMOUNT OF BOLTS

.....

LOCATION

Search...

TYPES

Select Types

Submit

### Add Location

NAME

.....

SETTING

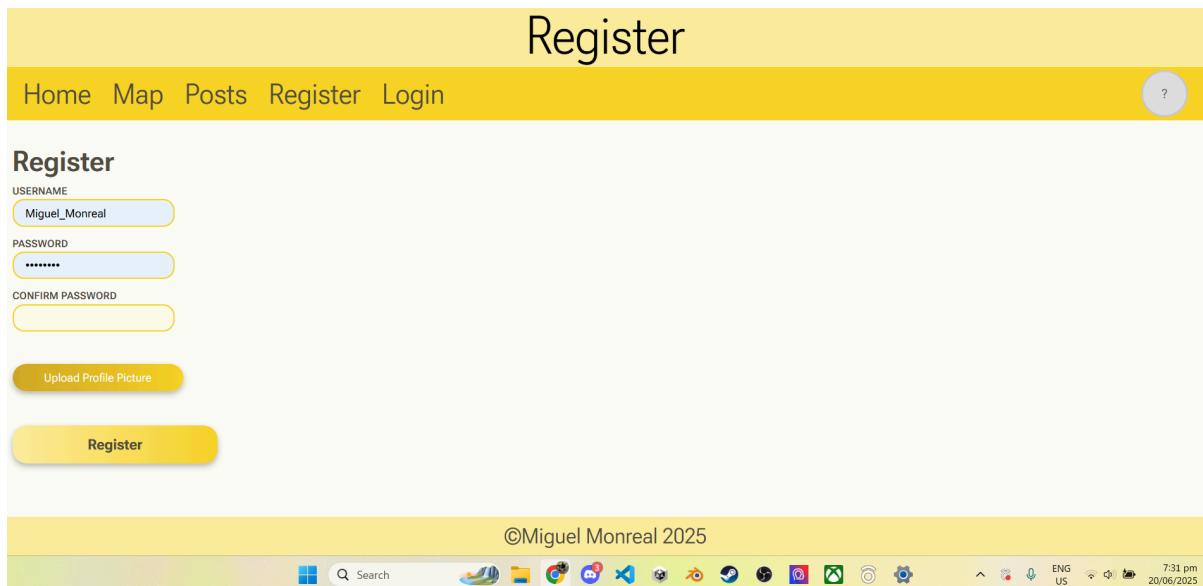
Crag

Add Image



Submit

I also made the footer always stick to the bottom of the screen.



I added the line to set the session's user id immediately after registering so you auto login.

Next I want the user to be able to edit their profile picture, and add a display name which doesn't have to be unique.  
Here is my layout plan for the edit profile page:

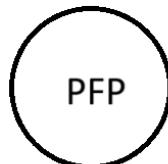
## Account Info

Display Name: Name

Edit(or pencil icon)

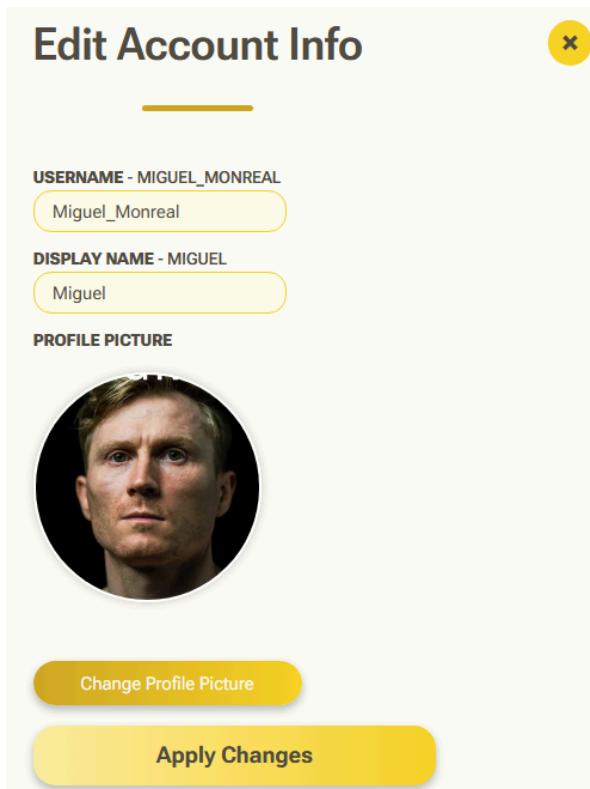
Username: Name

Profile Picture:

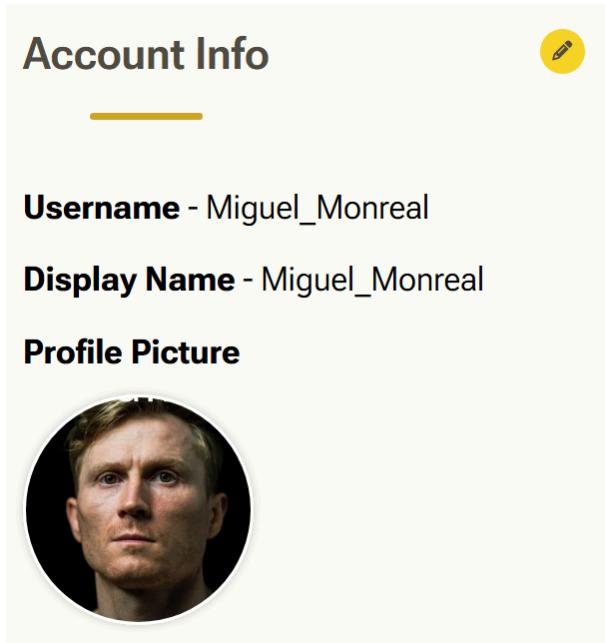


27/06/25

Here I have fully completed the edit menu page, and the user can add/edit their display name, username, and profile picture. All errors are accounted for and it works.



I also updated the account page along with it:



**17/06/25**

## Sprint 1 Testing

Throughout working on this sprint I made sure to test everything to ensure that my website will work for the public.

Here is a showcase video: [Basics and Account Sprint](#)

What	How	Expected	Got	Notes
Passwords not matching when registering.	Inputting different passwords for confirm and password.	The website should show that the passwords do not match.	Webpage displays 'Passwords do not match' and prevents registration.	Pass.
Explicit username when registering.	Input an explicit username.	Users should be prevented from registering and be given a message about their username.	The webpage displays 'Please avoid using inappropriate language.' and prevents registration.	Pass.
Invalid file type for profile picture when registering.	Input a video type or non image file in the profile picture field.	The user should be prevented from logging in and be given a message.	Webpage displays 'Invalid file type' and prevents registration.	Pass.
Multiple invalid inputs when registering.	Put a non matching password, explicit username, and invalid file type.	The user should be prevented from logging in and be told of their errors.	Webpage displays all errors that the user made.	Pass.
Navbar links redirect to the correct page.	Click on the navbar link.	User is redirected to the corresponding page.	User goes to the corresponding page to the navbar link.	Pass.
Login with incorrect password.	Input an incorrect password.	User is told of invalid password.	Webpage prevents login and displays 'Password is	Pass.

			incorrect.'	
Login with incorrect username.	Input an incorrect username.	User is told of invalid username.	Webpage prevents login and displays 'Username not found.'	Pass.
Logout button.	Click the logout button when logged in.	Button is not displayed if not logged in and logs the user out, removing account information displayed.	Button isn't there when logged out, and the user is fully logged out when logged in and clicking.	Pass.
Auto login when registering.	Register a new account.	After registering a new account you should be redirected to the home page, now logged in.	Logged in and redirected to the home page.	Pass.
Account info page shows info when logged in.	Go to the account page when logged in and when not logged in.	When logged out it should tell you to login or register, when logged in it should show you your account info.	Being logged out doesn't display info, just links for login and register, being logged in shows your account info.	Pass.
Registering with no input for username	Don't input anything in the username field	Users should be told of their error and not be registered.	User is asked to fill out the field.	Pass.
Registering with no input for password	Don't input anything in the password field	Users should be told of their error and not be registered.	User is asked to fill out the field.	Pass.
Registering with no input for confirm password	Don't input anything in the password field	Users should be told of their error and not be registered.	User is told the passwords do not match.	Pass.
Registering with no input for profile picture	Don't input anything in the profile picture field	The user should get the default magnus.png(may be changed later) profile picture.	User is given the default profile picture.	Pass.
Logging in with no input for username	Don't input anything in the username field	Users should be told of their error and not be logged in.	User is asked to fill out the field.	Pass.
Logging in with no input for password	Don't input anything in the password field	Users should be told of their error and not be logged in.	User is asked to fill out the field.	Pass.
Registering with a really long username	Paste a huge chunk of keyboard mash into the	Users should be stopped when it becomes too long.	The user is registered, with an extremely long username.	Fail, I added a max

	username field.			to the field to fix.
Registering with a really long password	Paste a huge chunk of keyboard mash into the password field.	Users should be stopped when it becomes too long.	The user is prevented from typing.	Pass
Registering with a password less than 8 characters	Input a very short password.	Users should be told their password is too small when attempting to register.	When attempting to register the user is told their password needs to be at least 8 characters.	Pass.
Registering with a username with spaces	Input a username with spaces throughout and try to register.	The user should be told their username cannot contain spaces.	The user is registered with the spaces in username.	Fail, I added an extra check for it.
Registering with a password with spaces	Input a password with spaces throughout and try to register.	The user should be told their password cannot contain spaces.	The user is told that the password must not contain spaces	Pass.
Registering with a non unique username	Input a pre-existing username when registering.	The user should be told that the username is taken.	The user is told that the username is already taken and not registered.	Pass.
Editing account with an inappropriate username	Input an inappropriate username in the username field.	The user should be told that the username is inappropriate and the edits won't be saved.	The user is told the username is inappropriate and their changes aren't saved.	Pass.
Editing account with an inappropriate display name	Input an inappropriate display name in the display name field.	The user should be told that the display name is inappropriate and the edits won't be saved.	The user is told the display name is inappropriate and their changes aren't saved.	Pass.
Editing account with a non unique username	Input a pre-existing username when editing an account.	The user should be told that the username is taken.	The user is told that the username is already taken and the changes aren't saved.	Pass.
Editing account with	Paste a huge	Users should be told that it	The user is told their	Pass.

a very long username	chunk of keyboard mash into the username field.	is too long when attempting to apply changes.	username is too long when trying to register	
Editing account with a very long display name	Paste a huge chunk of keyboard mash into the display name field.	Users should be told that it is too long when attempting to apply changes.	The user is told their display name is too long when trying to register	Pass.
Editing account with an empty username	Input nothing into the username field.	Users should be told that they cannot have an empty username.	The user is told their username cannot be empty and they are prevented from applying changes.	Pass.
Editing account with an empty display name	Input nothing in the display name field.	The display name should become the username.	The display name becomes the username when applying changes.	Pass.
Editing account with an invalid profile picture	Try using a video file for the profile picture field.	The user should be prevented from using a non photo file.	Non photo files don't display in the file explorer when choosing a file.	Pass.
Editing account without changing username	Don't change the username and make other changes.	The username shouldn't change when applying changes.	The username doesn't change when applying changes.	Pass.
Editing account without changing display name	Don't change the display name and make other changes.	The display name shouldn't change when applying changes.	The display name doesn't change when applying changes.	Pass.
Editing account without changing profile picture	Don't change the profile picture and make other changes.	The profile picture shouldn't change when applying changes.	The profile picture doesn't change when applying changes.	Pass.
Applying edits button	Make valid changes and press the apply button in the edit account page.	The edits should be properly applied.	The edits are applied and the account info is updated.	Pass.
Close edit account	Make changes but then close the edit menu.	The edits shouldn't be applied and the user should be redirected to the account info page.	The edits are not applied and the user is redirected to the account info page.	Pass.

Open edit account	Press the edit button in the account info.	The edit menu page should be opened.	The edit menu page is opened.	Pass.
Account information displaying	Go onto the account info page and view the info.	The information for the user's account should be displayed.	The info for the user's account is displayed.	Pass.
Making the username field too short with inspect tools in edit account	Edit the username with inspect to be too short and bypass any html prevention, then submit.	An error should be raised and submission should be prevented.	An error is raised and submission is prevented.	Pass.
Making the username field too long with inspect tools in edit account	Edit the username with inspect to be too long and bypass any html prevention, then submit.	An error should be raised and submission should be prevented.	An error is raised and submission is prevented.	Pass.
Making the username field empty with inspect tools in edit account	Edit the username with inspect to be empty and bypass any html prevention, then submit.	An error should be raised and submission should be prevented.	An error is raised and submission is prevented.	Pass.
Making the display name field too short with inspect tools in edit account	Edit the display name with inspect to be too short and bypass any html prevention, then submit.	An error should be raised and submission should be prevented.	An error is raised and submission is prevented.	Pass.
Making the display name field too long with inspect tools in edit account	Edit the display name with inspect to be too long and bypass any html prevention, then submit.	An error should be raised and submission should be prevented.	An error is raised and submission is prevented.	Pass.
Making the username field too short with inspect tools in register	Edit the username with inspect to be too short and bypass any html prevention, then submit.	An error should be raised and submission should be prevented.	An error is raised and submission is prevented.	Pass.

Making the username field too long with inspect tools in register	Edit the username with inspect to be too long and bypass any html prevention, then submit.	An error should be raised and submission should be prevented.	An error is raised and submission is prevented.	Pass.
Making the username field empty with inspect tools in register	Edit the username with inspect to be empty and bypass any html prevention, then submit.	An error should be raised and submission should be prevented.	An error is raised and submission is prevented.	Pass.
Making the password field too short with inspect tools in register	Edit the password with inspect to be too short and bypass any html prevention, then submit.	An error should be raised and submission should be prevented.	An error is raised and submission is prevented.	Pass.
Making the password field too long with inspect tools in register	Edit the password with inspect to be too long and bypass any html prevention, then submit.	An error should be raised and submission should be prevented.	An error is raised and submission is prevented.	Pass.
Making the password field empty with inspect tools in register	Edit the password with inspect to be empty and bypass any html prevention, then submit.	An error should be raised and submission should be prevented.	An error is raised and submission is prevented.	Pass.
Website visuals on different screen sizes	Test the website and how it looks on differing screen sizes, such as a larger screen.	The pages should display as usual, not looking messy or out of place. For example things looking too small or big.	The sizes look alright and not too out of place.	Pass.

## Sprint 2 - Climbing Map

The main part of this sprint will be the map feature where the user can look around an interactive map finding out about climbing routes around

New Zealand, and learning things about them so users can go out and climb those routes.

**25/04/25**

## Using an API

Instead of creating my own data for the climbs which will be displayed on the map, I will find an API which can give me a lot of information in one big heap. This is so that the process is sped up and I don't have to manually input many climbs.

### API

This API I found is exactly what I need to achieve the interactive map of climbing routes. So I can use the data within it to provide the climbs.

**30/04/25**

## ERD Diagram Version 2

After attempting to use an API for the climbing data, I found that the API isn't working for an unknown reason. So I contacted the developer of it and found that the API was upgraded so is currently a work in progress.



Jonathan Hunt

to me ▾

Hi Miguel

Fri 11 Apr, 15:27

Thanks for getting in touch. We upgraded the site last year and unfortunately the API had to change. It's still a work-in-progress so not usable just now.

Can you advise what you want to do with the API?

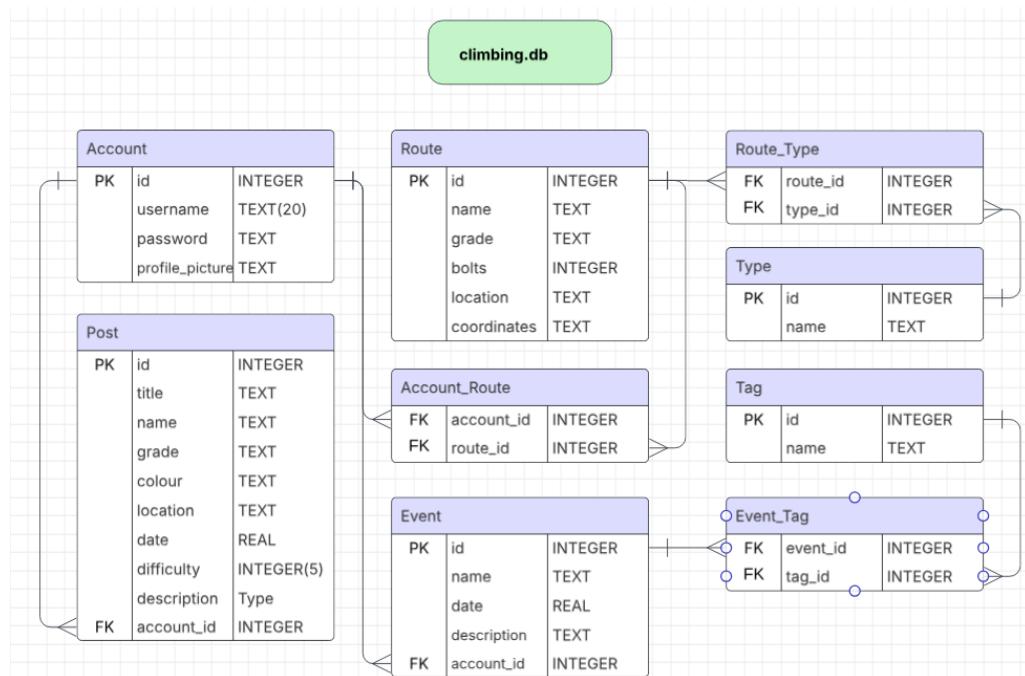
I'll try and get some time to progress it and let you know if it becomes available.

Regards  
Jonathan

...

As the only other climbing API for NZ that I found is for commercial uses only I will have to improvise and go back to the original plan of inputting my own data.

Though hopefully at some point the API returns as I won't be able to have as many climbing routes because there's a lot of necessary data which should be attached to one route.

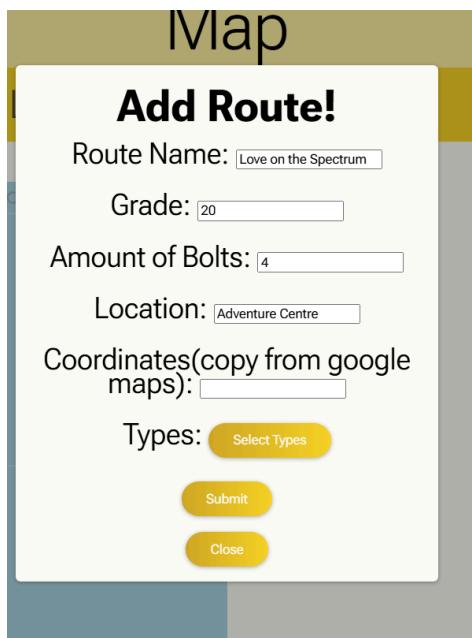


The interactive map requires latitude and longitude, so I have added the coordinates column to the Route table. I will be using [leaflet](#) to display a map with the interactive climbing location points.

14/05/25

## Adding Routes

I decided, as a way to increase the amount of climbs available on the map, and to account for any climbs it doesn't display, the user can add their own climb with a form.

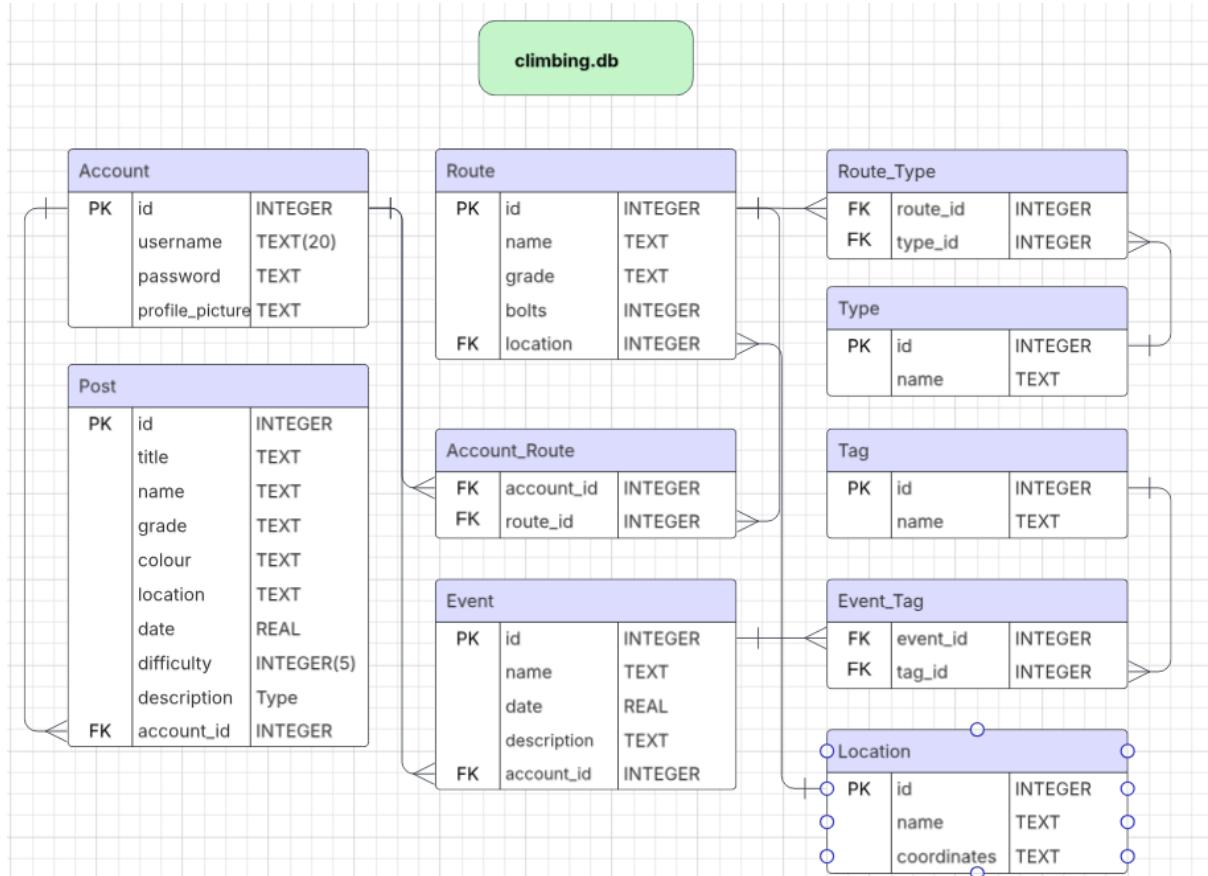


I used a tutorial to learn how to make this popup, and have been working more with javascript.

Through some testing I made the realisation that some climbs will have the same coordinates, like if they are at the same location. This would cause errors on the map since two markers would be in the same place. So I realised I would need to make routes a child of the type of location they're in. For example:



Then on the map when clicking on the map you can see all the climbing locations, and click on them to see their routes.



I added the location table which will be like the 'parent' of each route, and the route table has location\_id as each route has one location. This is to better organise the map, as displaying individual routes is inefficient and will be messy as there are thousands of routes but maybe only hundreds of locations.

After implementing the new location and route pages, I realised the add route function can now change to be simpler for the user. As every route now has a set location, on the form I will implement a search function for the location field. This will prevent the user from having to input coordinates which may be difficult.

Though there will need to be a location adder if it doesn't exist. Though maybe for the coordinates I can instead make the user interactively choose the position from a map.

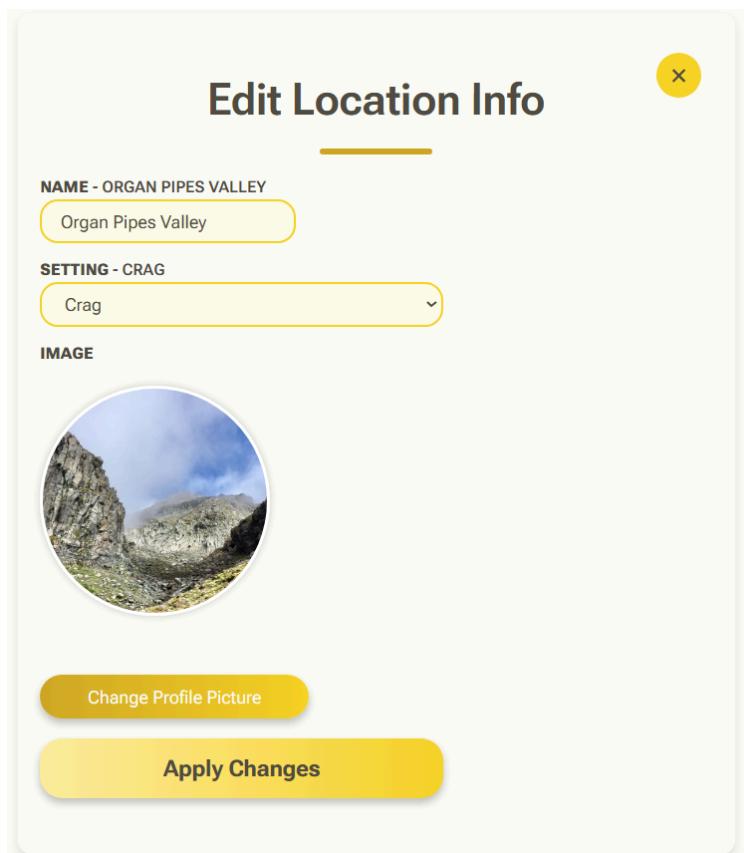
04/09/25

## Editing Locations and Routes

After completing the basis of the program, I found that I'd often want to alter the values of a route or location. As users may edit the info to be inaccurate, edited route/location info will require admin acceptance once submitted. I'll allow admins to instantly edit these for ease of testing.

There will be a simple edit icon in the top right of the route/location page to allow the user to edit.

As I didn't have time to implement the editing routes, I completed the editing location feature:



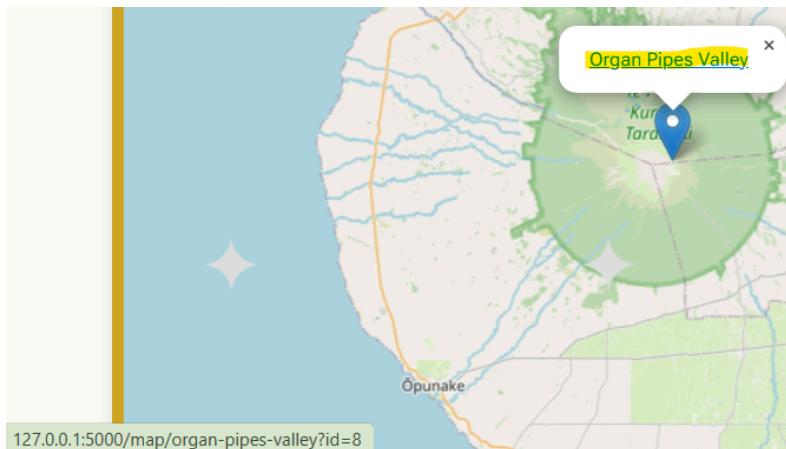
25/08/25

## Sprint 2 Data Integrity

### Locations

When clicking on a location marker, the url for that specific location can be accessed.

Here is one of the locations:



The information for this specific location, matches the information data in the database.

Here is the locations page which the link redirects to:

## Organ Pipes Valley



### Routes

Daft Punt

Here is the location entry in the locations table within my database which matches with the displayed information:

	id	name	coordinates	setting	image	account	pending
1	8	Organ Pipes Valley	-39.29405967760086 174.08240299459422	1	/uploads/organ-pipes-valley.png	1	0

It also currently has one route, daft punt, which matches with the database information from the routes table. The location is a foreign key that corresponds to the correct location:

<b>id</b>	<b>name</b>	<b>grade</b>	<b>bolts</b>	<b>location</b>	<b>account</b>	<b>pending</b>
32	Daft Punt	14	0	8	NULL	0

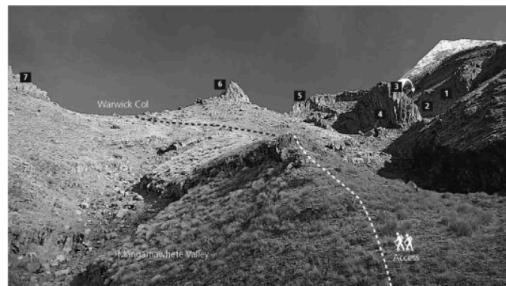
The information for this location was taken from the [Climb NZ](#) website, and the used information matches (specifically the coordinate location):

## Organ Pipes Valley

TYPE [Crag](#)

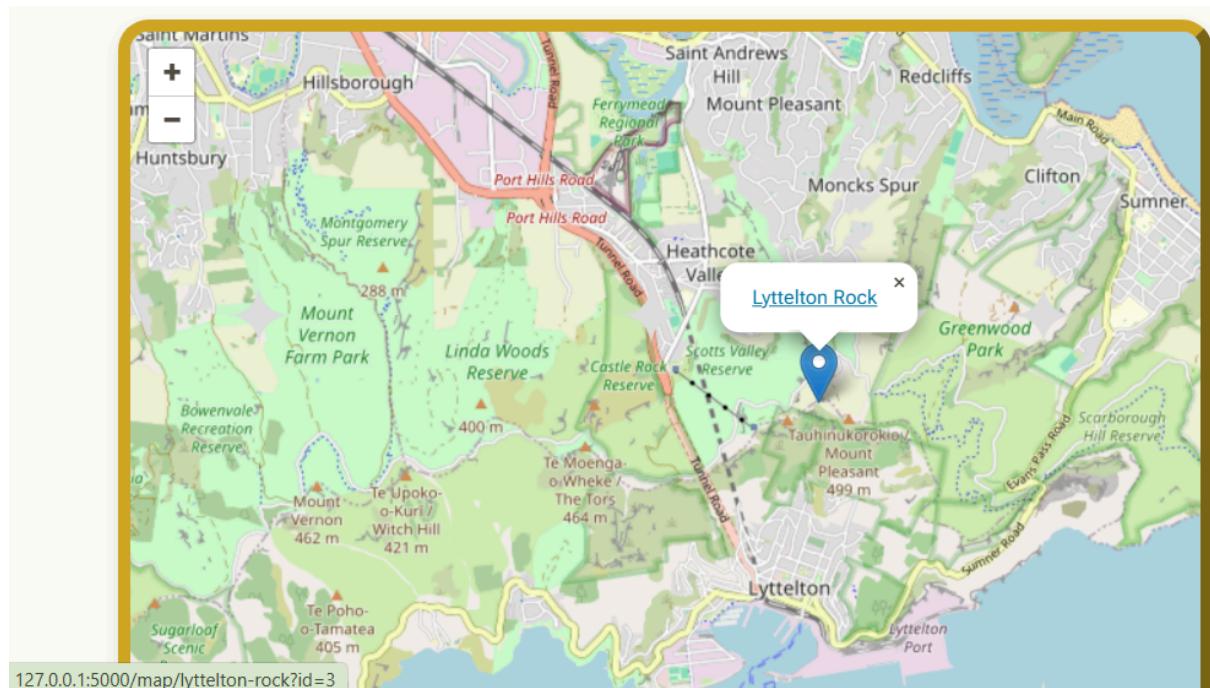
PART OF [Taranaki](#)

From Tahurangi Lodge, a large outcrop of rock can be seen on the southern skyline slightly above the level of the Lodge. This is Warwick Castle, with the Organ Pipes Valley (Mangamawhete Headwaters) falling towards the viewer. Lion Rock is on the skyline just above Warwick Castle.



LAT/LON -39.294056,174.082317, [NZ Topo Map](#)

Here is a second location:



The information for this specific location, matches the information data in the database.

Here is the locations page which the link redirects to:



The screenshot shows a web page titled "Lyttelton Rock". On the left is a photograph of a rocky cliff face. To the right, under the heading "Routes", are two items: "Bombs Away" and "Red Herring".

Here is the location entry in the locations table within my database which matches with the displayed information:

id	name	coordinates	setting	image	account	pending
3	Lyttelton Rock	-43.58761683 172.72372442	1	/uploads/lyttleton-rock.png	1	0

It also currently has one route, daft punt, which matches with the database information from the routes table. The location is a foreign key that corresponds to the correct location:

	id	name	grade	bolts	location	account	pending
1	3	Bombs Away	22	0	3	1	0
2	14	Red Herring	23	5	3	1	0

The information for this location was taken from the [Climb NZ](#) website, and the used information matches (specifically the coordinate location):

# Lyttelton Rock

TYPE [Crag](#)

ALTITUDE 380m

PART OF [Port Hills](#)

WALKTIME 5 min

ASPECT South

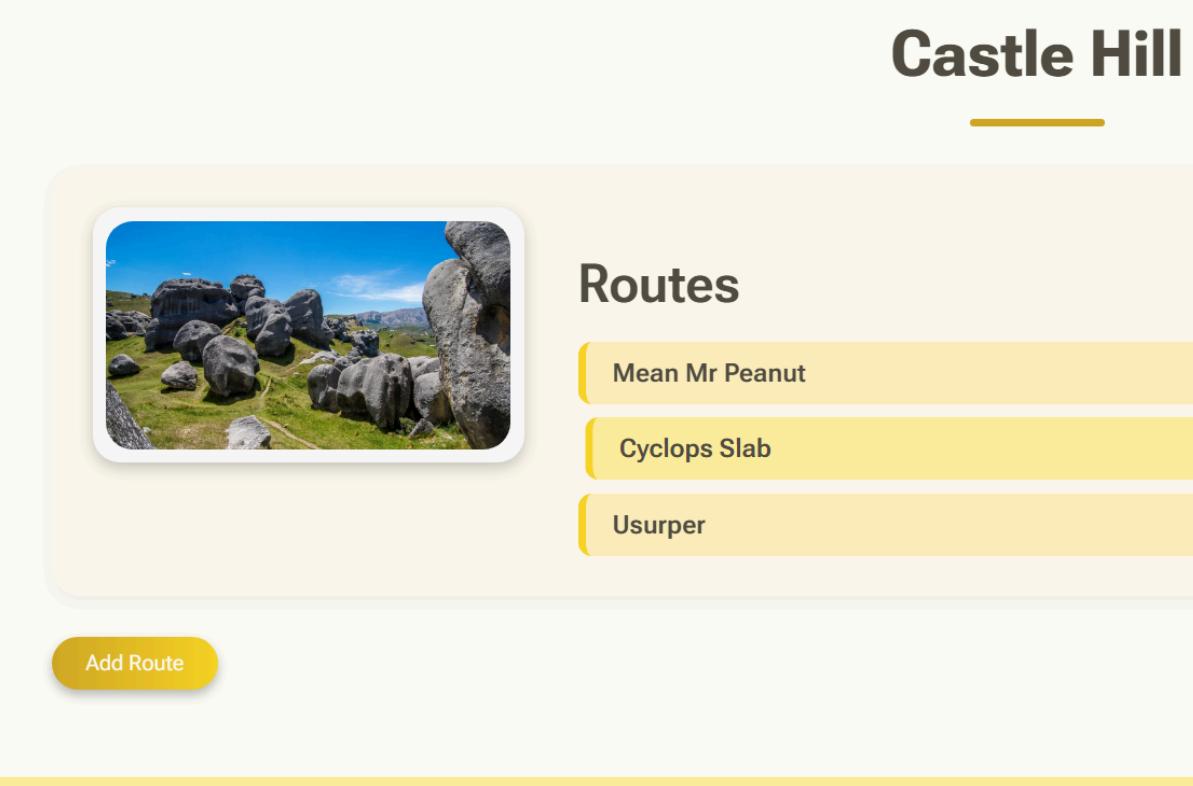
LAT/LON -43.58761683,172.72372442, [NZ Topo Map](#)

TOPO50 BX24 777 739

## Routes

The routes can be accessed through their specific locations page.

Here is one route, and its corresponding redirect URL:



The screenshot shows a mobile application interface for 'Castle Hill'. At the top, the location name 'Castle Hill' is displayed in a large, bold, dark font. Below it is a horizontal yellow bar. The main content area features a large image of several large, grey boulders on a grassy hillside under a blue sky. To the right of the image, the word 'Routes' is written in a bold, dark font. Below 'Routes' are three yellow rectangular buttons, each containing a route name: 'Mean Mr Peanut', 'Cyclops Slab', and 'Usurper'. At the bottom left of the screen is a yellow rounded rectangle button labeled 'Add Route'. At the very bottom of the screen, there is a thin yellow bar containing the URL '127.0.0.1:5000/map/castle-hill/cyclops-slab?id=12' on the left and the copyright notice '©Miguel Monreal 2024' on the right.

Here is the routes corresponding page:

## Cyclops Slab

Type: Lead

Grade: 16

Bolts: 1

Location: Castle Hill

Log Route

Here is the routes matching data within the route table in the database which matches the displayed information:

id	name	grade	bolts	location	account	pending
12	Cyclops Slab	16	1	7	1	0

The routes information was taken from the [Climb NZ](#) website:

[Home](#) / [NZ](#) / [South Island](#) / [Castle Hill Basin](#) / [Castle Hill Kura Tawhiti](#) / [Spittle Hill](#) / Cyclops Slab

## Cyclops Slab

GRADE 16

LENGTH 8m

1

QUALITY ★★★★

LOCATED ON [Spittle Hill](#)

Here is another route, and its corresponding redirect URL:

The screenshot shows a mobile application interface. At the top, the text "White Cliffs" is displayed. Below it is a large image of a coastal cliff with green vegetation and a sandy beach. To the right of the image, the word "Routes" is written in a large, bold, dark font. Underneath "Routes", there is a yellow rectangular button with the text "Racing Snakes" in black. At the bottom left, there is a yellow rounded rectangle button with the text "Add Route". At the very bottom of the screen, a URL is visible: "127.0.0.1:5000/map/white-cliffs/racing-snakes?id=8".

Here is the routes corresponding page:

The screenshot shows a mobile application interface for a route named "Racing Snakes". The title "Racing Snakes" is at the top. Below it, the route's characteristics are listed: "Type: Lead", "Grade: 17", "Bolts: 0", and "Location: White Cliffs". At the bottom of the screen, there is a yellow rounded rectangle button with the text "Log Route".

Here is the routes matching data within the route table in the database which matches the displayed information:

<b>id</b>	<b>name</b>	<b>grade</b>	<b>bolts</b>	<b>location</b>	<b>account</b>	<b>pending</b>
8	Racing Snakes	17	0	5	1	0

The routes information was taken from the [Climb NZ](#) website:

[Home](#) / [NZ](#) / [North Island](#) / [Auckland](#) / [Te Ahumata \(White Cliffs\)](#) / Racing Snakes

# Racing Snakes

GRADE 17

LENGTH 28m

 Natural pro required

QUALITY ★★★★

FIRST ASCENT Sandy Britain, Frances Watling, Dave Braddock, 6/10/2017

LOCATED ON [Te Ahumata \(White Cliffs\)](#)

11/06/25

## Sprint 2 Feedback

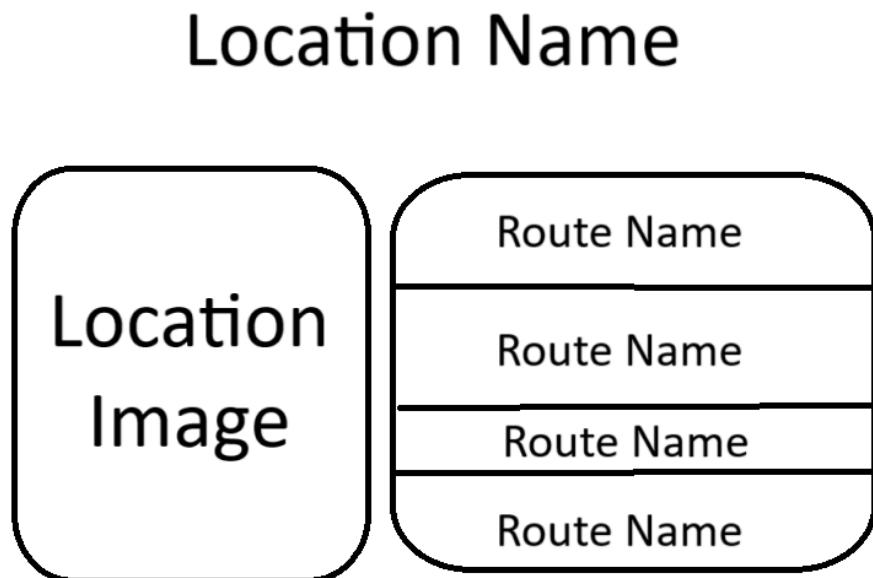
Person	Who	Feedback	How it Helps
Mr Dunford	Programming Teacher	Add images showcasing the locations when you go on their page. The styling could be done better too. Moderation for adding locations or routes would be good, so maybe add a pending section to when the user tries to add	This feedback will allow me to control the users and prevent them from doing anything bad on the app, it will also make their experience better with styling and images. Primarily

		something, and have an admin allow it on the website.	moderation is very good feedback which I will implement to reduce potential spam.
Isaac	Programming classmate	The website needs a lot of styling, also there's quite a bit of empty space next to the map so maybe something could be added there. As well as that may be changing the map to a satellite map, or having an option of what kind of map you want to see could be good.	This will help me to improve the user experience by making the website more visually appealing with the styling and map page.
Gertrude	Advanced design student	Add text that explains what "right click to add a location" does to be more clear, also do the same for "add route".  Make the pictures look nicer - make the white square border wrap around the pictures evenly	This will help to make the website more understandable to use for new users, and improve the aesthetics of it.
Mum	Reliever teacher and highly experienced in sports	Add as many locations as possible. Explain what the page does. Link to the climbing gyms websites. More images or videos. Explain different types of climbing with a video	The more locations I have the less people will have to add making it easier. The other pieces of feedback help to provide more information for

		to each one.	new climbers.
--	--	--------------	---------------

First I implemented a location image from Mr Dunford's feedback to make the website more engaging for users.

Along with this I implemented some CSS into the location page which I came up with the plan for here:



The colours I will use will be based on my initial colour palette.

Here is the implemented design and functionality:

## Adventure Centre



### Routes

- Over the Moon
- Love on the Spectrum
- Love Island
- The Biggest Crack in Town

[Add Route](#)

I have also added functionality to the add location so the user can add the image for their location as well.

Next I will add moderation to the adding of locations and routes. This will require a few changes in my SQL data like admins and the pending status.  
Here is my design for the admin page where admins can accept pending submissions:

## Pending Submissions

Route Name ▼

Route Name ^

Location: location name

Grade: xx

Type(s): type name(s)

Bolts: xx

[Approve](#)

Here is the finished working page, and the approve and deny button either set pending to false, approving the submission, or deletes the submission by denying.

## Pending Submissions

---

### Pending Routes

Usurper v

Location: Castle Hill

Type: Lead

Grade: 21

Bolts: 2

Approve Deny

©Miguel Monreal 2025

## Pending Locations

efrw v

Coordinates: [Google maps coordinates](#)

Setting: Crag

Image:



Approve Deny

I also made it so you have to log in to add a location or route to further moderate submissions.

The other feedback I got like styling was also addressed in my location page, and will be further addressed in my styling sprint. As well as that most other things will be addressed in other sprints, like the empty space in map will have a search and filter option.

**17/06/25**

## Sprint 2 Testing

Throughout working on this sprint I made sure to test everything to ensure that my website will work for the public.

Here is a showcase video of the sprint: [Map, Locations, and Routes Sprint](#)

What	How	Expected	Got	Notes
Location marker links redirect to the location page.	Click on the location marker, then click on its link.	The location page is opened and routes are shown.	The corresponding location page opens, and routes are displayed.	Pass.
Location without routes.	Click on a location link that doesn't yet have routes.	Users are informed of no current routes.	No routes are displayed, but the website doesn't tell the users that there are no routes.	Failed to inform users of no routes, so I fixed this.
Add location at correct right click spot.	Right click somewhere to add a location and fill out the form to add it.	After filling out the form, the location should be added where it was clicked, and the coordinates should be stored in the database.	Location is added where the user clicked and the corresponding coordinates are added to the database.	Pass.
No location image added on add location form.	Don't include an image.	The form won't submit and users should be told.	The user is told to add an image and the form doesn't submit.	Pass.
Locations display all	Go onto a location	The location page will only	The location page only	Pass.

non pending routes.	page that has a pending route.	display non pending routes.	displays non pending routes.	
Map displays all non pending locations.	Go onto the map when there is a pending location.	The map will only show non pending locations.	The location page displays all locations despite them pending.	Fail, pending locations are shown, so I fixed it by adding a WHERE pending = 0 to a query I didn't see.
Admin page displaying for admins only.	Check if it displays for non admin accounts and people who aren't logged in.	Admin page will only display for admins.	Admin page displays for admins, doesn't for other users, but if an admin logs out the admin page is still there.	Fail, admin page may display for non logged in users, I fixed this by making admin level none when logged out.
Approve button publishing submission.	Click the approve button on a submission.	Submission will be published by pending being set to false, and it will be visible in the public pages.	Approved submission is displayed on its locations page.	Pass.
Deny button deleting a submission.	Click the deny button on a submission.	Submissions will be removed and deleted from the database, and is no longer visible.	Denied submission is deleted from the database and no longer appears.	Pass.
Location coordinates opening in the	Click the link in the admin page	A new page opens to a marker on google maps in	A new tab of google maps opens with a	Pass.

correct google maps location.	on the certain locations info.	the corresponding location/coordinates.	marker at the correct location.	
Adding routes only working for logged in users	Try adding a route/location when not logged in and when logged in.	When not logged in the button tells them to login and redirects to the login page, otherwise it works normally.	Only works when logged in, otherwise button redirects to the login page.	Pass.
Inputting a non-existent(within database) location for the add route.	Input a location which doesn't exist.	Error should be displayed telling users of this.	SQL error, website crashed.	Fail, I added error handling for all add route inputs (painful)
Inputting nothing for the route name in add route	Input nothing for route name field.	Error should be displayed telling users of this.	Error was displayed telling the user the field was empty.	Pass.
Inputting no bolts in add route	Input nothing for bolts field.	The form should pass and the value of bolts should default to 0.	Bolts are defaulted to 0, and form works.	Pass.
Inputting no location in add route	Input nothing for the location field.	Error should be displayed telling users of this.	Error was displayed telling the user the field was empty.	Pass.
Choosing no types in add route	Input nothing in the types field.	Error should be displayed telling users of this.	Error was displayed telling the user the field was empty.	Pass.
Inputting no grade in add route	Input nothing in the grade field.	Error should be displayed telling users of this.	An error was displayed telling the user the field was empty.	Pass.
Inputting no name in add location	Input nothing in the types field.	Error should be displayed telling users of this.	An error was displayed telling the user the field was empty.	Pass.
Inputting no image in add location	Input nothing in the name field.	Error should be displayed telling users of this.	An error was displayed telling the user the field was empty.	Pass.
Inputting a pre-existing route name	Input a pre-existing route name in the add	Error should be displayed telling users of this.	An error was displayed telling the user the field was empty.	Pass.

	route form.			
Inputting a pre-existing location name	Input a pre-existing location name in the add route form.	The form should work as per usual.	The form is submitted as usual, since the location exists.	Pass.
Bolts is a float in add route	Input a number like 4.5 in the bolts field	Error should be displayed telling users of this.	An error was displayed telling the user the field was empty.	Pass.
Bolts is a negative number in add route	Input a number like -4 in the bolts field	Error should be displayed telling users of this.	An error was displayed telling the user the field was empty.	Pass.
Bolts is a non number in add route	Input something like 'e' in the bolts field	Error should be displayed telling users of this.	An error was displayed telling the user the field was empty.	Pass.
Inputting a very long route name in the add route form.	Input a very long string of text in the route name field, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inputting a very long grade in the add route form.	Input a very long string of text in the grade field, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inputting a very large number in the add route form.	Input a very large number in the bolts field, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting name field to be null in add route form	Inspect the name field and make it null by removing JS validation, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting name field to be too long in add route form	Inspect the name field and make it very long by removing JS validation, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting name	Inspect the name	An error should be	An error is displayed	Pass.

field to be pre-existing in add route form	field and make it a pre-existing route by removing JS validation, then submit.	displayed and form submission should be prevented.	and form submission is prevented.	
Adding a space to the end of the name field in add route	Add a space to the end of the name field, and make it a pre-existing route but with a space added.	The space should be ignored and an error should be displayed preventing submission.	An error is displayed and form submission is prevented.	Pass.
Inspecting grade field to be null in add route form	Inspect the grade field and make it null by removing JS validation, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting grade field to be too long in add route form	Inspect the grade field and make it very long by removing JS validation, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting bolts field to be too long in add route form	Inspect the bolts field and make it very long by removing JS validation, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting bolts field to make it negative in add route form	Inspect the bolts field and make it negative by removing JS validation, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting bolts field to make it not a number in add route form	Inspect the bolts field and make it a non number by removing JS validation, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting bolts field	Inspect the bolts	An error should be	An error is displayed	Pass.

to make it a float in add route form	field and make it a float by removing JS validation, then submit.	displayed and form submission should be prevented.	and form submission is prevented.	
Inspecting location field to be null in add route form	Inspect the location field and make it null by removing JS validation, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Adding a space to the end of the location field in add route	Add a space to the end of the location field, and make it a pre-existing location but with a space added.	The space should be ignored and the form should submit as usual.	An error is displayed and form submission is prevented.	Pass.
Inspecting location field to be non-existent(within database) in add route form	Inspect the location field and make it a non-existent location by removing JS validation, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting types field to not select any in add route form	Inspect the types field and select none by removing JS validation, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting types field to be not an existing type id	Inspect the types field and choose a non-existent type id by changing HTML form, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting types field to be not a number	Inspect the types field and input a non number by changing HTML form, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Location name is not	Input nothing for	An error should be	An error is displayed	Pass.

null, in add location form	the location name then submit.	displayed and form submission should be prevented.	and form submission is prevented.	
Location name is too long, in add location form	Input a very long name for the location name then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Image is not null, in add location form	Input nothing for the location image then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting name field to be null in add location form	Inspect the name field and make it null by removing JS validation, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting name field to be too long in add location form	Inspect the name field and make it very long by removing JS validation, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting coordinates to be invalid in add location form	Inspect the lat and lon fields in the HTML, and override them to make them invalid, not actual coordinates.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting setting id to not be an integer	Inspect the setting id field in HTML and make it a non-integer value, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting setting id to not be a valid setting id	Inspect the setting id field in HTML and make it a non-existent setting id, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Image field	Inspect the image	An error should be	An error is displayed	Pass.

inspected to be none	element and make it none.	displayed and form submission should be prevented.	and form submission is prevented.	
Image field inspected to be an invalid type	Inspect the image field and make it a different field type like text then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
ID in location url query is empty	Edit the url on the location page, and change the query ID to be null.	The user should be redirected to the 404 page.	The user is redirected to the 404 page.	Pass.
ID in location url query is not a valid digit	Edit the url on the location page, and change the query ID to not be a valid digit, like "a", "2.3", "-1" etc.	The user should be redirected to the 404 page.	The user is redirected to the 404 page.	Pass.
ID in location url query is not an existing ID	Edit the url on the location page, and change the query ID to not be an existing ID in the database, e.g. "999".	The user should be redirected to the 404 page.	The user is redirected to the 404 page.	Pass.
ID in route url query is empty	Edit the url on the route page, and change the query ID to be null.	The user should be redirected to the 404 page.	The user is redirected to the 404 page.	Pass.
ID in route url query is not a valid digit	Edit the url on the route page, and change the query ID to not be a valid digit, like "a", "2.3", "-1" etc.	The user should be redirected to the 404 page.	The user is redirected to the 404 page.	Pass.
ID in route url query is not an existing ID	Edit the url on the route page, and change the query ID to not be an existing ID in the database, e.g. "999".	The user should be redirected to the 404 page.	The user is redirected to the 404 page.	Pass.

Going to admin page when not an admin	Go to admin page when logged out, or on a non-admin account, enter the /admin into the url/	The user should be redirected to the 404 page.	The user is redirected to the admin page.	Fail, I added an abort if the permission level wasn't admin on the admin function.
Location name is not null, in edit location form	Input nothing for the location name then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Location name is too long, in edit location form	Input a very long name for the location name then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Image is not null, in edit location form	Input nothing for the location image then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting name field to be null in edit location form	Inspect the name field and make it null by removing JS validation, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting name field to be too long in edit location form	Inspect the name field and make it very long by removing JS validation, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting setting id to not be an integer in the edit location form.	Inspect the setting id field in HTML and make it a non-integer value, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Inspecting setting id to not be a valid setting id in the edit	Inspect the setting id field in HTML and make it a	An error should be displayed and form submission should be	An error is displayed and form submission is prevented.	Pass.

location form.	non-existent setting id, then submit.	prevented.		
Image field inspected to be none in edit location form.	Inspect the image element and make it none.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Image field inspected to be an invalid type in edit location.	Inspect the image field and make it a different field type like text then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Edit location form updates location info.	Edit the location and change the values correctly then submit.	The new info should be displayed on the location page.	The new info for the location is displayed on the location page.	Pass.

## Sprint 3 - Events

In this sprint I plan to create the events page which will be similar to the posts page though this is specifically to organise climbing events, and will hold additional information like the results and information. The results can be viewed on the page in the specific events information.

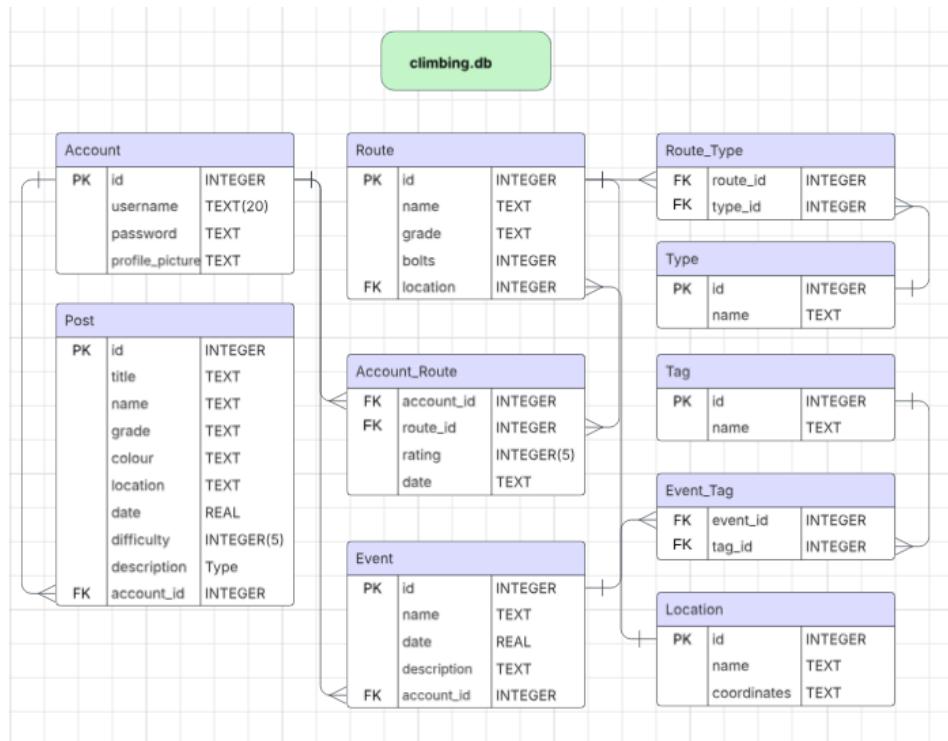
4/06/25

## Climbing Log

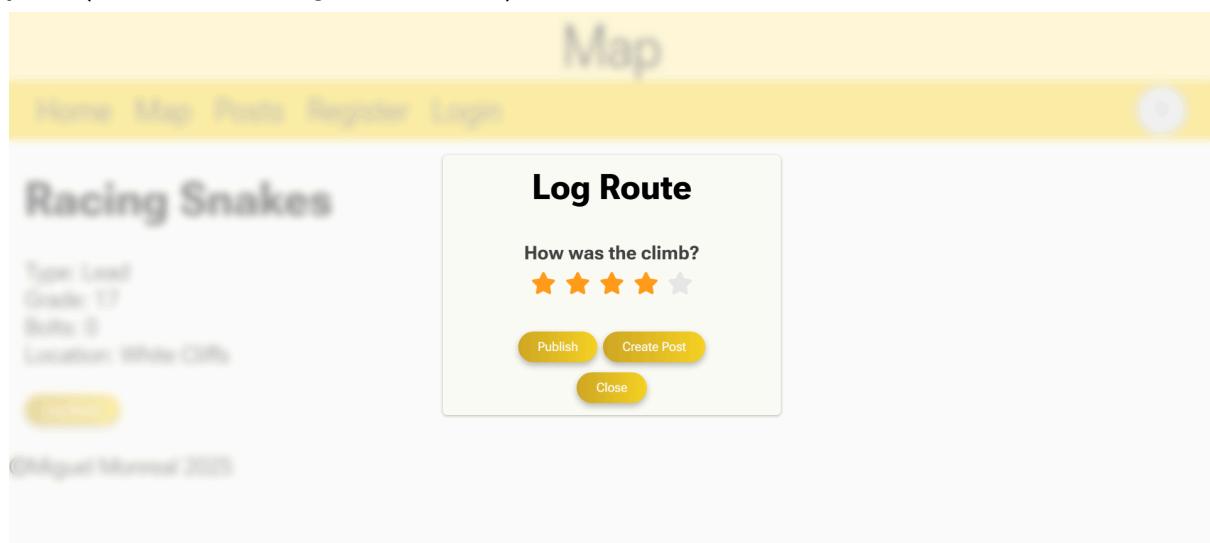
Now in class I will begin working on the climbing log feature. I've decided the user can go onto the map, or (eventually) search for a route and then click a button on that specific climbing route to publish it to their log, giving a rating out of 5. They will also have the option to create a post out of that climb.

Logged climbs will display on a user's profile, and can be an entertaining and motivating way to climb.

While working on this I realised the Account\_Route bridging table would have to have the additional fields of rating and date so that it can display this information in the users account. So I added these columns to the table.



Here's a screenshot of the logging routes in development, with a star rating system and the button options to publish the log, or create a post(which also logs the route).



**29/06/25**

After finishing off feedback and testing for sprints 1 and 2, I've come back to logging routes, and want to display logged routes on a users account page.

For some ideas on how I should format this I looked at the [geocaching website](#) in the account page for some ideas, as they also inspired the logging climbs feature to some extent.

So I found this layout, which I may use for the account page:

The screenshot shows a user profile for 'Miguel\_Monreal'. At the top, there's a placeholder for a profile picture with a small icon. Below it, the username 'Miguel\_Monreal' is displayed, followed by the level 'Basic', the date 'Joined 8/26/2022', and 'Last Visited 6/28/2025'. To the right, there are statistics: 14 finds (indicated by a yellow icon), 0 hides (indicated by a yellow icon), and 0 Favorite points (indicated by a green icon). There are also links for 'Edit' and 'View forum posts'. A small circular icon is present next to the statistics.

Below the stats is a navigation bar with tabs: 'About', 'Geocaches' (which is highlighted in green), 'Trackables', 'Souvenirs', 'Gallery', 'Lists', and 'Statistics'. To the right of the navigation bar, there's a link 'Advertising with Us'.

The main content area is divided into two sections: 'Geocaches Found' and 'Geocaches Owned'. Under 'Geocaches Found', it says '(All Geocache Finds)' and 'Everyone can see your Geocaches found.' with a link to 'View settings'. It lists one item: 'Traditional Cache' with a count of '14'. Below this, it says 'Total Found' with a count of '14'. A note at the bottom states: '\* Benchmarks are not included in Total Found'. Under 'Geocaches Owned', it says '(All Geocache Ownings)' and 'Everyone can see your Geocaches owned.' with a link to 'View settings'. It says 'No hides have been recorded.' and 'Total Caches Owned'.

While working on the new layout I decided to add a date column to the account(which is a minor change)

This is my layout plan for the logged routes section.

# Logged Routes

Name	Rating	Date
Name	Rating	Date

Link to route

Here is the finished product:

Miguel  
Miguel\_Monreal  
Joined: 27/06/2025

Logged Climbs   Favourites   Event Results

Over the Moon ★★★★★ 10-06-2025

The Biggest Crack in Town ★★★★★ 29-06-2025

Bombs Away ★★★★☆ 29-06-2025

Logout

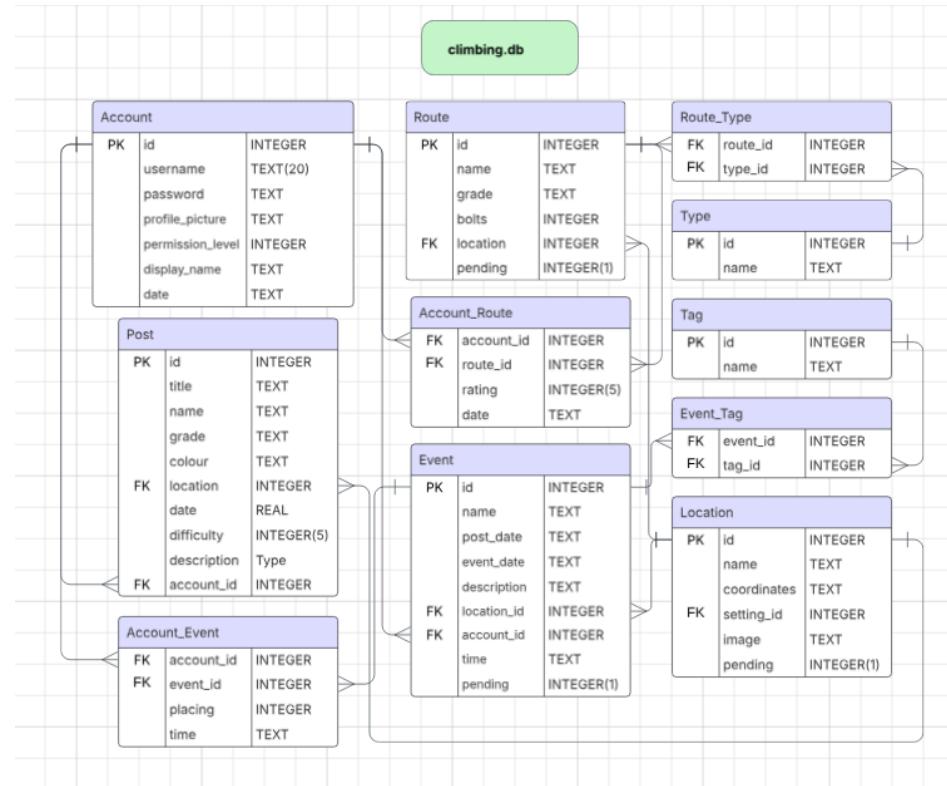
30/06/25

## Displaying Events

Today I plan to begin the actual events page with a test event displaying the events CSS, and the events table.

While making the event table I made a few necessary database changes, to account for certain info and the users who will join, plus their results. This includes the event date, the post date, time, and many of the event tables columns seen in the updated ERD diagram.

Here is the new updated ERD diagram (with some changes from the feedback in the previous sprints too)



The **post\_date** in the event table is the date the event was created/posted, and the **event\_date** is the date the event begins. The location will generally be an indoor gym which should hopefully be added to the database, and if not it can be added by them, but if it is added they can just search for it.

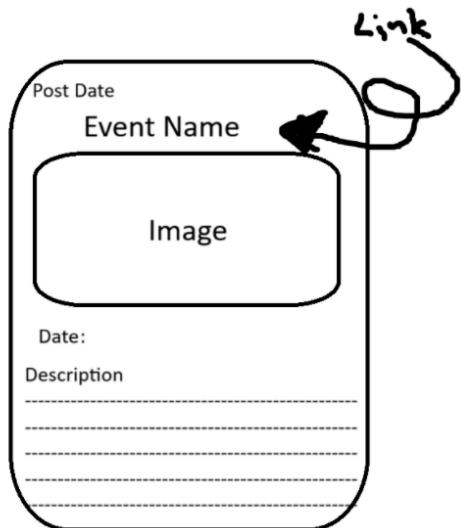
The account id is the account that posted the event.

Time is when it begins until when it ends.

Pending is to ensure there isn't event spam, or misuse.

Account\_Event is the table for the users who join the event, it has their placing(which may not actually be needed to fill out in the case it isn't a competitive event) but that will be used for the leaderboard, along with time(which is only if the event is a speed climbing competition).

Here was my layout idea for the display of an event:



Then each event will be displayed as a grid with 3 elements per row, on the events page, and there may be a more info/join button attached to them(instead of the title link).

From feedback I got I decided to add the image to the events to make it more appealing.

Here is the completed events page with the test events displaying(made fun by chatgpt generated names and descriptions):

<p>30-06-2025    Created by Miguel</p> <p><b>CompTest1</b></p>  <p>Date - 31-01-2026</p> <p>Location - Adventure Centre</p> <p>This is a test competition event</p>	<p>30-06-2025    Created by Miguel</p> <p><b>Miggy's Boulder Bash</b></p>  <p>Date - 02-02-2026</p> <p>Location - Adventure Centre</p>	<p>28-06-2025    Created by Miguel</p> <p><b>Zoro Fans Anonymous</b></p>  <p>Date - 15-03-2026</p> <p>Location - Adventure Centre</p>
--	---	--

30-06-2025    Created by Miguel

## CompTest1



Date - **31-01-2026**

Location - **Adventure Centre**

This is a test competition event created for development and testing purposes. It is not a real competition and is used to ensure functionality of event features within the system. -

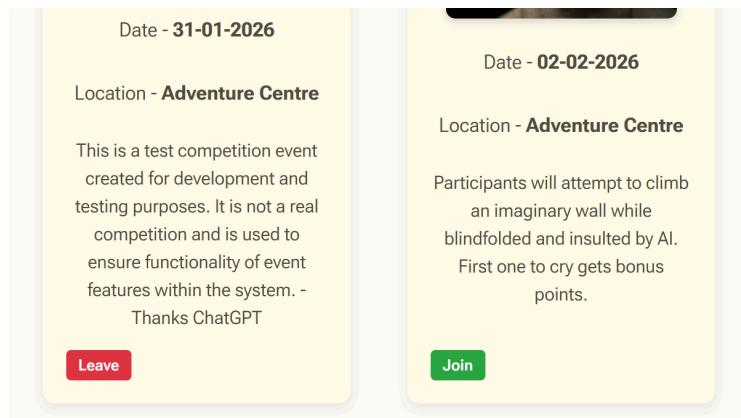
Thanks ChatGPT

**02/07/25**

## Event Joining

Now I will implement joining events, with the join event button, the button's functionality of adding that user to the Account\_Event table.

Here is the implemented join and leave buttons for the events:



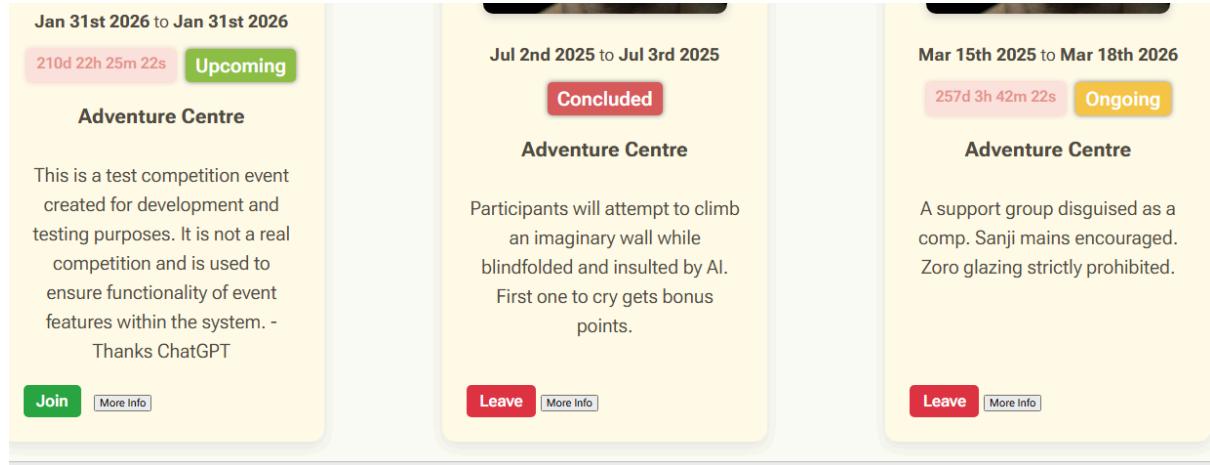
**3/07/25**

## Event Countdown

For the quality of the users experience I wanted to implement a countdown to the event which would appear with events on the users profile and on events.

To do this I had to create a script in JS that parses my dates and times to readable JS Date's and then calculates the time remaining.

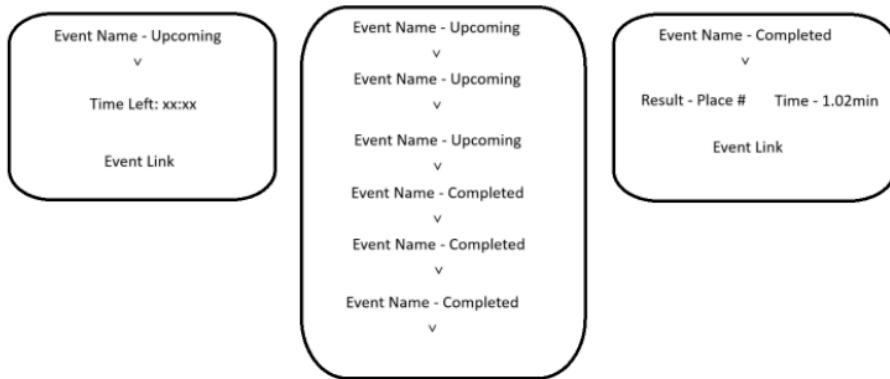
Here is the completed countdowns, and the events current status. I also made some of the dates more readable by converting them to e.g. Jul 2nd 2025, rather than 02-07-2025.



**4/07/25**

## Events Displaying on Profile

Next I want to display the events the user has currently joined in their profile, here is my layout plan for it:



While working on it, I wanted to create the more info/the events unique page, so I've planned this layout:



The current layout will most likely be more filled up and changed later as more things are implemented into an event, though this will contain a more detailed description of the event, and display the eventual results which will be implemented soon.

Here is the completed more info page:

The screenshot shows a mobile-style event information page. At the top, the event name "Miggy's Midnight Meowdown" is displayed next to a green "Upcoming" button. Below the title, the date and time are listed as "Jun 6th 2026 at 11:59pm" followed by "→ Jun 6th 2026 at 12:01am". A pink box indicates a duration of "337d 0h 15m 1s". The location is listed as "Adventure Centre" with a location pin icon. Below the location are two yellow buttons: "Details" and "Results". A yellow callout box contains the note: "- Insults from the AI cannot be responded to verbally." At the bottom left is a red "Leave" button, and at the bottom right is a grey "Back to Events" button.

Here is the completed joined events displaying on the users profile:

The screenshot shows a user profile interface with three joined events listed. At the top, there are three yellow buttons: "Logged Climbs", "Favourites", and "Event Results". Below them are three event cards: 1) "CompTest1" (Upcoming), which has a duration of "209d 21h 23m 20s" and a "Go to Event" button. 2) "Zoro Fans Anonymous" (Ongoing), which has a duration of "256d 2h 40m 20s" and a "Go to Event" button. 3) "Route Name or Shame Game" (Concluded), which has a "Go to Event" button. Each event card includes a small downward arrow icon.

It will most likely get a revamp later on, specifically the concluded events if the event was competitive.

Next I want to display events on the profile and events page in order of: ongoing, upcoming, then concluded.

After learning some more things about sorting python arrays, I got it to work for both the account and events page:

The screenshot shows a list of events on a website. At the top, there are three main categories: "Ongoing", "Upcoming", and "Concluded". Below each category is a list of events:

- Ongoing:** Zoro Fans Anonymous (Created by Miguel), CompTest1 (Created by Miguel)
- Upcoming:** Death's Doorway Boulder Jam (Created by Miguel), Miggy's Midnight Meowdown (Created by Miguel)
- Concluded:** Route Name or Shame Game (Created by Miguel)

Below this, there is a larger grid of event cards, each with a thumbnail, title, date range, creator, and a brief description. The events in this grid follow the same chronological order as the main list:

- 28-06-2025: Zero Fans Anonymous (Created by Miguel)
- 30-06-2025: CompTest1 (Created by Miguel)
- 27-06-2025: Death's Doorway Boulder Jam (Created by Miguel)
- 30-06-2025: Miggy's Midnight Meowdown (Created by Miguel)
- 29-06-2025: Soul Courier Trials [TEST] (Created by Miguel)
- 24-06-2025: Overcooked Beta Bash (Created by Miguel)
- 23-06-2025: Tommy Tester Fiesta (Created by Miguel)
- 22-06-2025: ChatGPT Can't Climb IRL (Created by Miguel)
- 21-06-2025: Bolts & Giggles (Created by Miguel)
- 30-06-2025: Miggy's Boulder Bash (Created by Miguel)
- 25-06-2025: Route Name or Shame Game (Created by Miguel)

The events page is also sorted by whether the user has joined the event or not (this is irrelevant in the account page as they've obviously joined all the events displayed there).

## 9/07/25

### Event Results

The next thing I'll be working on is displaying the events results on the individual results page.

I'll display them through a table and order them by the placement they got (if applicable).

However, not all results will be competitive, so the results page shouldn't appear in this case, and not all events will have a time to be displayed in the table, so I will also account for this.

The design for this is a simple table.

Here is the fully implemented results table:

Placing	Name
1	Miguel
2	test9
3	test2
4	test8
5	test7
6	test1
7	test10
8	Hayden
9	ben
10	test5
11	test6

Time is also displayed when it is applied:

Placing	Name	Time
1	Miguel	2:00
2	test9	2:22
3	test2	2:47
4	test8	2:58
5	test7	3:21
6	test1	3:49
7	test10	5:07
8	Hayden	6:59
9	ben	9:30
10	test5	9:31
11	test6	10:00

Here is the completed account events, which display the users results in events, now with the concluded events results:

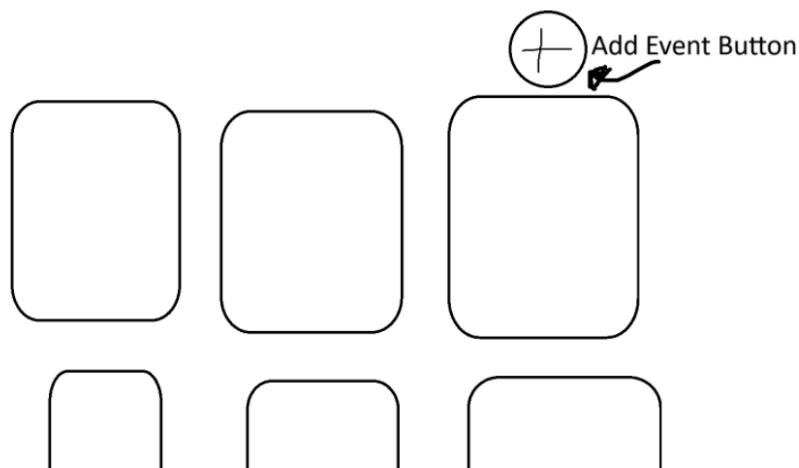
The image shows two separate event cards. The first card is for 'Miggy's Boulder Bash' and is marked as 'Concluded'. It displays the message 'No results yet, check back later' and a 'Go to Event' button. The second card is for 'Route Name or Shame Game' and is also marked as 'Concluded'. It displays the word 'Result' and '1st' in the results section, along with a 'Go to Event' button. Both cards have a yellow header and a white body.

Time is also correctly displayed if it is part of the result.

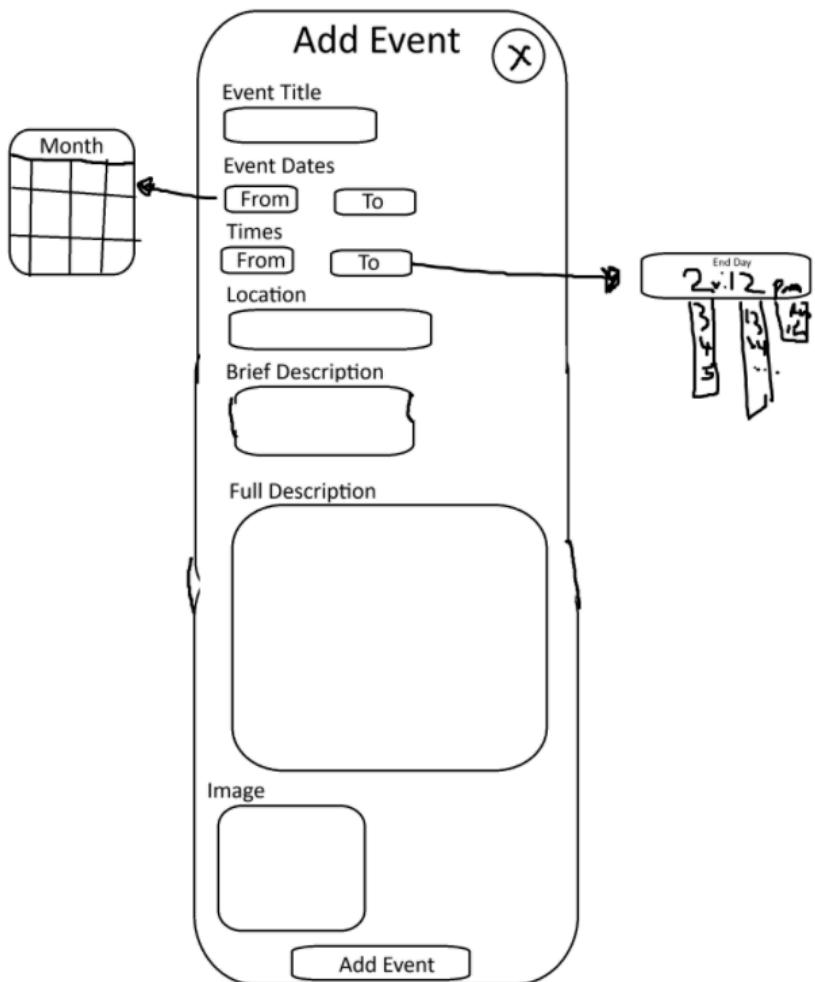
10/07/25

## Adding Events

Now I plan to implement the add event feature, here is my layout plan for it and its form:

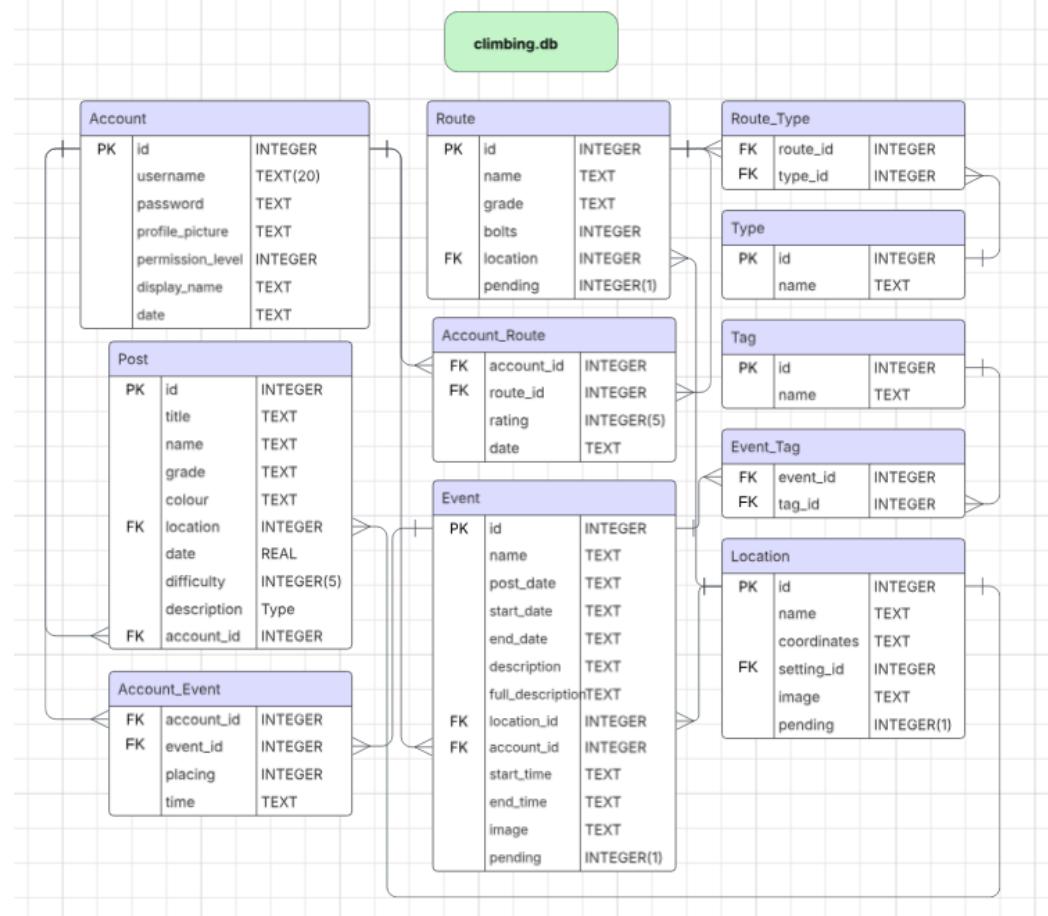


Here is my design for the add event form:



I will have to learn how to implement a calendar select and time select feature as I want to provide the user a good experience within the form. I also want the user to be able to customise their text in the descriptions, like adding new lines.

Adding this form also has led to a lot of modifications to my ERD diagram and database which can be seen here. Specifically the event table, which has more detailed columns like start/end time/date, full description, and image:



Here is the completed form and its basic functionality:

The screenshot shows a mobile-style form titled "Add Event". The fields include: "TITLE" (text input), "START DATE" (date input with placeholder "dd/mm/yyyy"), "END DATE" (date input with placeholder "dd/mm/yyyy"), "START TIME" (time input with placeholder "--:-- --"), "END TIME" (time input with placeholder "--:-- --"), "LOCATION" (text input with placeholder "Search..."), "BRIEF DESCRIPTION" (text area), and "FULL DESCRIPTION" (large text area). Below the form are two buttons: "Add Image" (yellow background) and "Submit" (blue background).

Fortunately the things I was worried about turned out to be quite simple as I just had to use different input types for date and time, and text areas helped with the descriptions.

The form currently works and it commits it to SQL, the next step will be some CSS tweaking, followed by a ton of testing and accounting for errors.

**16/07/25**

## Publishing Results

After accounting for all errors and testing with the add event form, finally I need to add a form to publish the results of the competition. I want to design this to be as quick and low effort as possible for the ease of use of the event publisher, so I will automate as much as I can.

Here is my plan for the form:

Placement	Name	Time
#	# Name	(Time)

The results can be entered from the events page, which the host user will get a reminder to add when the event has concluded, though they can choose to not add results(for example if the event is non competitive).

The placements can be manually entered, or dragged to the desired position, which will be something I'll learn.

As well as that the time will be an optional input field, though if one is entered they all must be entered.

I decided for ease of use I wanted a drag and drop feature on the table rows. I found out about the SortableJS library, which enabled me to implement this feature with relative ease.

Here is the implemented feature(time isn't fully configured yet):

Placing	Name	Time(optional)
1	Rocco	1:01
2	Gertrude	2:31
3	Isaac	4:44
4	Miguel	5:03
5	Mum	6:07

**Submit**

Now I need to insert the results into my database when the user presses the submit button. The method of getting the placement number will be a bit different as it's not a proper form value, instead I will get the placement based on the order of results which are fetched from the form.

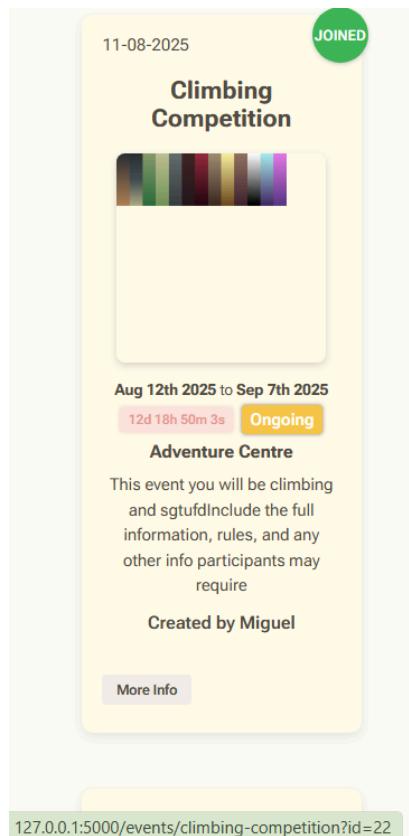
I decided to make things smoother. I will make the add results form on a separate route than the rest of the event, as it is complex and may be redirected to many times, so this will prevent any potential errors, and lessen potential confusion for the end users.

## Sprint 3 Data Integrity

### Events

A specific event's info can be accessed through the events page, then to find out more about the event you can press the more info button.

Here is one of the events:



127.0.0.1:5000/events/climbing-competition?id=22

Here is its corresponding page:

The screenshot shows a web browser displaying an event page. The main title is "Climbing Competition" with an "Ongoing" status indicator. Below the title is the event timeline: "Aug 12th 2025 at 12:21am → Sep 7th 2025 at 09:26am" and a duration of "12d 18h 48m 6s". The location is listed as "Adventure Centre". At the bottom of the page, there are two yellow buttons labeled "Details" and "Results". A large yellow callout box contains the text "rULES" and "MORE rules", followed by a repeating placeholder text block: "Include the full information, rules, and any other info participants may require". At the very bottom of the page is a "Back to Events" button.

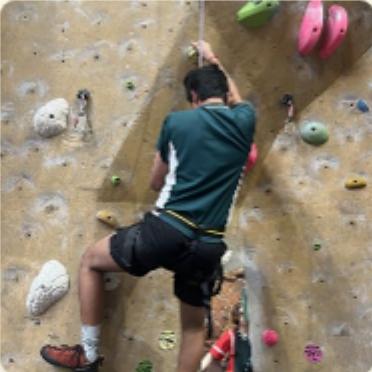
Here is its database entry from the event table, the information on the website matches the data in the database:

id	name	post_date	start_date	end_date	description	full_description	location	account_	start_time	end_time	image	pending
22	Climbing Competition	11-08-2025	12-08-2025	07-09-2025	This event you will b...	rules...	Adventure Centre	1	12:21am	09:26am	/uploads/gradients_9.png	0

Here is another event:

26-08-2025 JOINED

## South Island Secondary Schools Climbing Event



Aug 28th 2025 to Aug 29th 2025

1d 20h 20m 39s Upcoming

**Adventure Centre**

The event will take place during Winter Tournament Week (Thursday 28th & Friday 29th August) at the Adventure Centre in Waltham. The teams of four climbers can be mixed or single sex.

Created by Miguel

Leave More Info

Here is its corresponding page:

## South Island Secondary Schools Climbing Event

Upcoming

Aug 28th 2025 at 07:30am → Aug 29th 2025 at 02:40pm 1d 20h 19m 50s

Adventure Centre

Details

Results

Day 1 Format:

- Each team will be allocated a starting rope
- Teams will rotate in a clockwise format around the gym to their next allocated rope (a schedule and course map will be published closer to the day)

Here is its database entry from the event table, the information on the website matches the data in the database:

id	name	post_date	start_date	end_date	description	full_description	location	account_	start_time	end_time	image	pending
24	South Island Secondary Schools Climbing Event	26-08-2025	28-08-2025	29-08-2025	The event will take ...	Day 1 Format:...	Adventure Centre	1	07:30am	02:40pm	/uploads/siss_climbing_event.png	0

The information for this event was taken from an actual climbing event happening soon, here is the majority of the source information (from an email about the event details):

### 2025 - South Island Secondary Schools Climbing Event

Please find below information relating to the South Island Secondary Schools Clim Event.

#### Schedule

Thursday

7.30am	Gym Opens
8.00am	Registration Opens
8.30am	Registration Closes
8.45am	Team Briefing

Friday

7.30am	Gym Opens
8.00am	Registration Opens
8.30am	Registration Closes
8.45am	Team Briefing

<b>2.20pm</b>	<b>Prize Giving</b>
<b>2.40pm</b>	<b>Farewell</b>

#### **Day 1 Format:**

- Each team will be allocated a starting rope
- Teams will rotate in a clockwise format around the gym to their next allocated rope (a schedule and course map will be published closer to the day)
- All **FOUR** climbers have **ONE** attempt at **ONE** of the climbs on that rope per round
  - Climbers can choose what route they would like to climb on that rope (easiest, medium, or difficult)
- Each round is 8-minutes in duration
- There is a 2-minute transition between rounds
- If a climber weights the rope during their climb that is the end of their attempt, scoring ceases and they must come down
- Each team belays their own team members
- Sketchy belaying will not be tolerated – if after coaching and warning poor belaying is still happening, that team will be removed from the event
- Each team will self-score – we ask that teams do so in the spirit of the event which is fundamentally about PARTICIPATION

Etc...

30/06/25

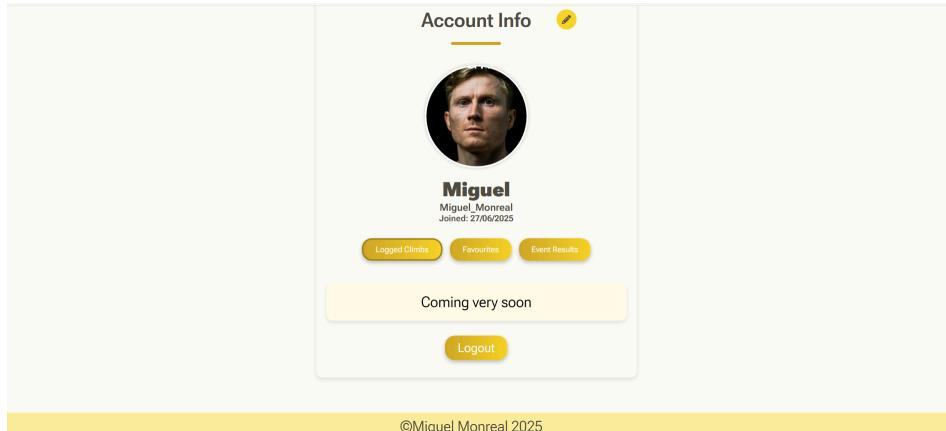
## Sprint 3 Feedback

Person	Who	Feedback	How it Helps
Gertrude	Advanced design student	<p>Her feedback was actively given as I worked on it.</p> <ul style="list-style-type: none"> <li>- The layout of the current account page isn't that great, with the spacing and size of everything.</li> <li>- The colours weren't that</li> </ul>	<p>All of this feedback I implemented while working on the project, which led to the account page revamp, the decisions for the event pages, and helped with nearly every design</p>

		<p>appealing, for the account page and stars.</p> <ul style="list-style-type: none"> <li>- The account page format of info wasn't that great and should be more readable.</li> <li>- The events layout could be a 3*3 grid displayed, and should have an image.</li> <li>- Better colour choices for the event statuses</li> </ul>	choice I made.
Mum	Reliever teacher and highly experienced in sports	I'm not sure what ongoing events I'm in, and it's confusing what upcoming events I'm in. Also I don't know why my event isn't showing up when I submit it.	As she is a sports expert and a potential end user, this gives me insight on how an end user may use my website. So I will make it clear as to what events you've joined by adding a sticker like thing to events, as well as that I will add a section to the account of your pending submissions.
Isaac	Software Engineer	It looks good so far, maybe add a help page. Logged events are confusing if no events are logged.	I mightn't add a help page, instead I will ensure everything in the website is clear as

		The event results don't just show results, they also show events I am in.	to its usage so users don't need to question how to use something. This feedback helps to improve the account page, so I will improve the understanding of the tabs like logged routes and events by adding just a bit of text.
Cohen	Software Engineer	<ul style="list-style-type: none"> <li>- Use a different font.</li> <li>- The account icon when not logged in looks like a help button.</li> <li>- Add some more info to the pages(map and home).</li> <li>- Add a logo to the header.</li> </ul>	This will help to improve the usability of my website, as users won't be confused as to what to do and how to use my website.

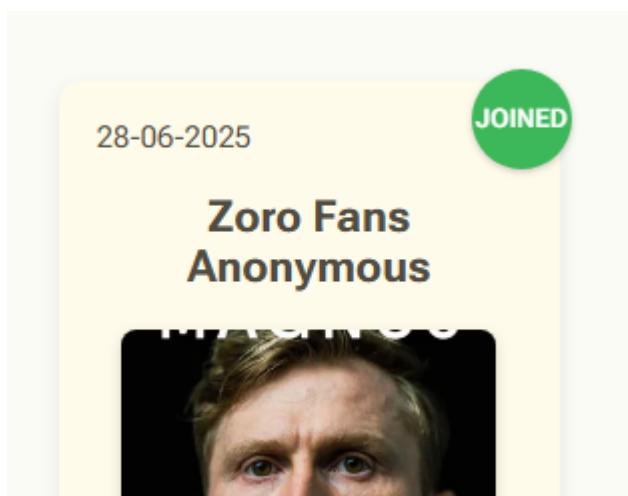
There was a lot of design feedback I got from Gertrude, which I implemented into many of my layouts previously mentioned. One big piece of feedback was the account page revamp, and the new layout choice for that:

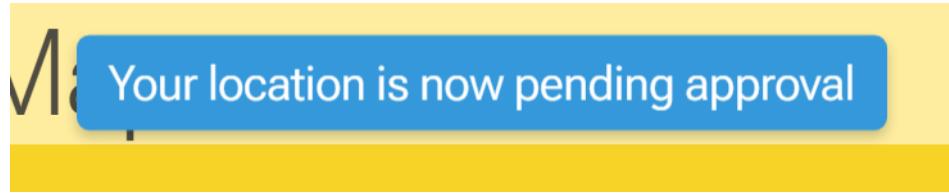


To account for my mum's feedback I added a joined sticker to the events that the user has joined. I put it in the top right corner of the event, made it reasonably large, and in uppercase to grab the users attention so they know for sure they are a part of the event.

This will improve the experience of the climbers who may use my website as my mum is similar to them, being a sports player. In general it will make it clear for all users what events they have joined or not.

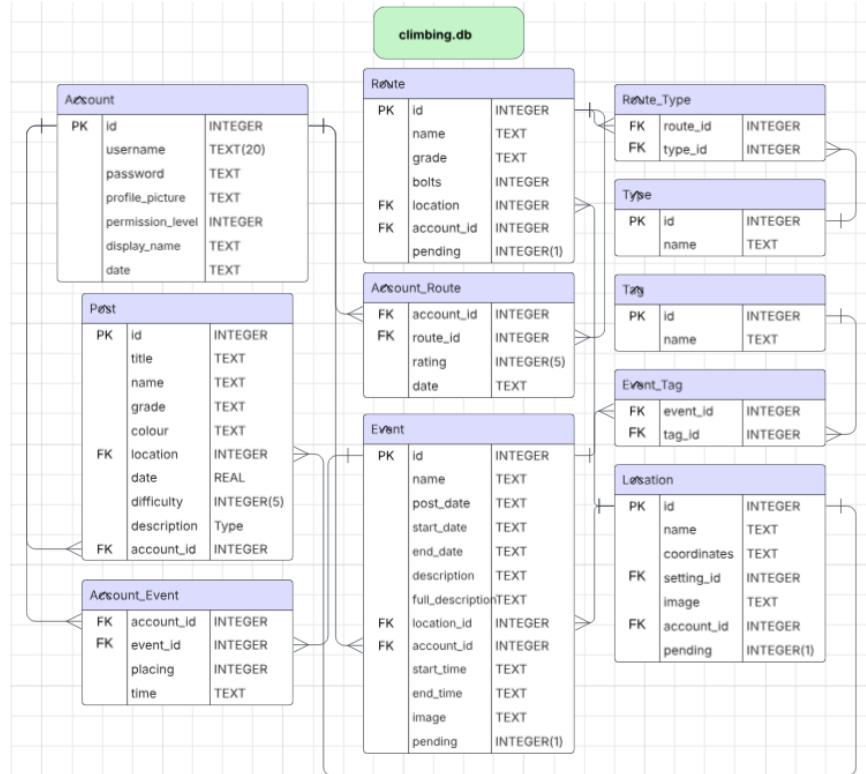
To account for her other piece of feedback and further reduce confusion I will make a section of the users pending submissions in their account. I also decided to add a notification to tell the user their route/location/event is pending for further clarity.



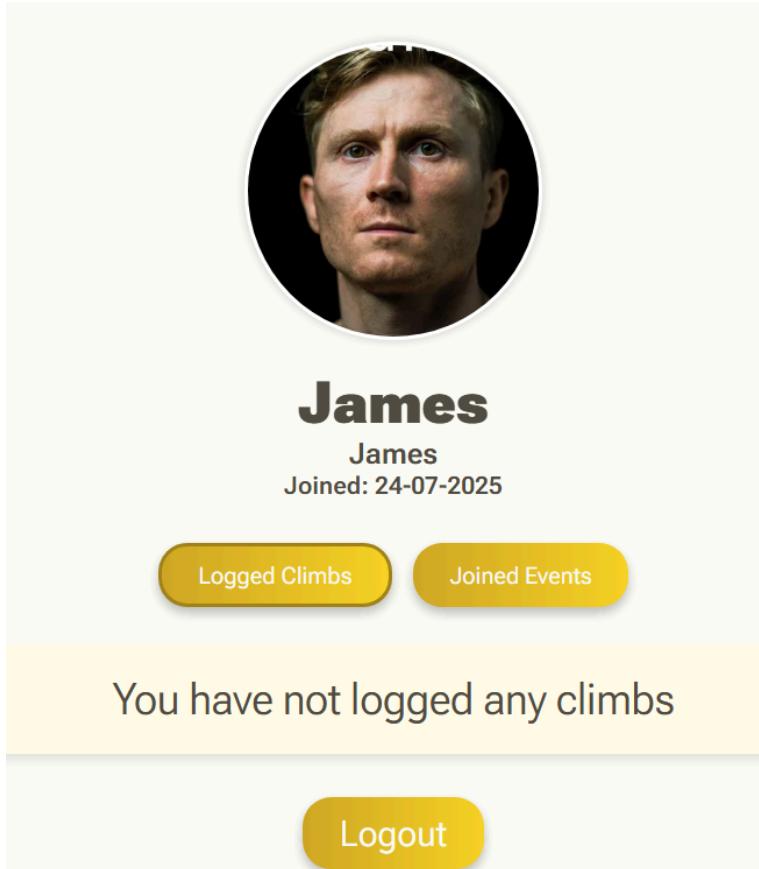


Type	Name
Route	Love on the Spectrum
Route	hi4
Location	defw
Location	WERG
Location	IMAGE TEST
Event	Somethign
Event	e3freg

There was also a change in database structure from these tweaks (adding account\_id to many tables):



To account for Isaacs feedback I added a message in both logged routes and joined events on the account page telling the user that they have no logged climbs or joined events:

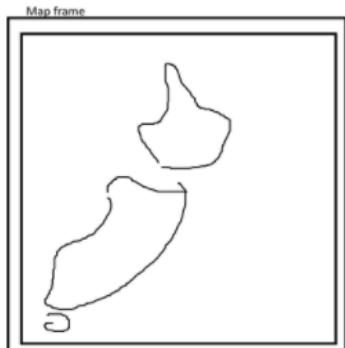


I also decided to remove the favourites section as it is a feature I probably won't add.

Through following Cohen's feedback I have redesigned the map page layout like this:

## How to Use

Description on how to use.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....



Add Route

Right click anywhere on the map to add a location!

Here is the updated map page, I also updated the route page as per Cohen's feedback:



## How to Use

You can use this map to view climbing locations around primarily New Zealand. When going into a location you can view the climbing routes within it and log them as completed to add to your profile.

If any locations or routes that you know aren't on the map you can add them too - once you do they will be awaiting approval by an admin.

+ Add Route

Right Click Anywhere on the Map to Add a Location!

## Bombs Away

Type: Lead

Grade: 22

Bolts: 0

Location: Lyttelton Rock

Log Route

These improvements should improve the aesthetics of my website, making it more appealing visually to anyone who uses it.

**29/06/25**

## Sprint 3 Testing

Throughout working on this sprint I made sure to test everything to ensure that my website will work for the public.

Here is a showcase video showcasing the sprint: [Events Sprint](#)

What	How	Expected	Got	Notes
Section buttons opening section on account page	Clicking the different buttons for the sections in the account page.	The section div should be displayed on the page immediately.	The corresponding section div is displayed on the page.	Pass.
Join date is added to the account	Register a new account and see if the join date is displayed in the account page.	Correct join date(current date) 29/06/25 should be displayed in the account page for the corresponding account.	Correct date is displayed on the account page(and database obviously)	Pass.
Logged routes showing star value	Log different values of stars on routes and go to logged routes.	The amount of stars given for a route should be displayed on the account page.	The number of stars for a given route is displayed properly on the account.	Pass.
All events displaying on events page	Go onto the events page and look through events.	All events in the database should be displayed on the page.	All events in the database are displayed.	Pass.
Join event button	Click the join event button on an event.	The button should immediately become a leave button, and the user should be put into the account_event table.	The button immediately becomes a leave button and the user is added to the account_event table.	Pass.
Leave event button	Click the leave	The button should	The button	Pass.

	event button on an event that has been joined.	immediately become a join button, and the user should be removed from the account_event table.	immediately becomes a join button and the user is removed from the account_event table.	
Non logged in accounts joining events	Logout and go to an event, where the join button is.	Instead of join or leave buttons it should be a button redirecting to the login page, informing the user that they must login.	Button informs the users to login redirects to the login page. No join/leave button.	Pass.
Date conversion	Look on events to see if the DD-MM-YYYY dates have been converted to (e.g.) Jul 5th 2025.	Dates are converted into a more readable format, 05-07-2025 becomes Jul 5th 2025.	All expected dates are converted to become more readable.	Pass.
More info button	Click the more info button on an event.	Should be redirected to that event's specific page.	Redirected to that events page.	Pass.
Countdown timer	Look at the countdown timer on events.	It should be counting down to the event's start date if it is upcoming, though if the event has already started(ongoing) it should be counting down to the end time, and if it is already concluded it shouldn't be displayed.	Upcoming events countdown to start time, ongoing events countdown to end time, and concluded events don't display the countdown.	Pass.
Event status	Look at events which are upcoming, ongoing, and concluded.	The status should depend on whether the event has begun yet, if it hasn't started it should display upcoming, if it has started it should display ongoing, if it has finished it should display concluded.	Depending on whether the event has started or not etc, the status' show the correct label.	Pass.
Joining and leaving events that are ongoing or concluded.	Try to join an event that is ongoing or concluded.	The leave/join buttons should not be displayed on ongoing or concluded events.	Leave and join buttons only display for upcoming events and not ongoing/concluded events.	Pass.

Events status ordering	Go onto the account and events page and look at the order the events are displayed in.	The events should be displayed in the order: ongoing, upcoming, and then concluded, and for the events page the joined events should display before the non joined events.	All events are correctly ordered by their status and their joined status too in the events page.	Pass.
Event results displaying	Go onto a concluded events results page.	The results should only display if the event is concluded and results are available.	Results only display for concluded events with results.	Pass.
Name on the results table	Look at the names used in a results leaderboard.	If the user has a display name that is used as the name, otherwise their username should be used.	If the user has a display name that is used, otherwise their username is used.	Pass.
Time on the results table	Look at a results table with and without the time column.	If the time is included in the results, then a column should be added for it, otherwise it shouldn't display.	Time column only appears if it is filled out in the data.	Pass.
Results ordering	Look at the order of results on a results table.	The results should be ordered by the placement of that participant, in ascending order.	The results are ordered by placement in ascending order.	Pass.
Placement suffix	Go onto the account page or event page and look at the placings.	The placings should be suffixed, e.g. "1st" instead of "1".	The placings are all suffixed correctly, "1st" "2nd" "3rd" "4th" "11th" etc.	Pass.
Account displaying event results	Look at the concluded events results on the account profile.	The results should only show if the event is concluded and they have been inputted, time should only be there if it was a part of the event.	The results only display on concluded events with results, but if time is null it displays as "None".	Fail, I added an if statement to account for this case.
Multiple concluded events on account	Make multiple concluded events.	The events should each display the info that they have, and whether they have	After one concluded event, the next one doesn't properly	Fail, I modified a script

		results or not.	display its info.	since one of the elements had been removed for concluded events.
Event form submission	Fill out the add event form fields and submit.	The event should be added to the database, though it won't display as it will be pending, then the user is redirected to the event page.	The event is added to the database, and doesn't display, then the user is redirected to the events page.	Pass.
Description new line prevents submission	Press the enter button while writing a description.	A new line should be added to the description and the form should not be submitted.	A new line is added and the form is not submitted.	Pass.
Name field empty on add event	Input nothing in the name field and submit.	An error should display informing that the field cannot be empty.	Error is displayed informing users that the field cannot be empty.	Pass.
Very long name on add event	Input a very long name in the field and submit.	An error should display informing that the field cannot be too long.	Error is displayed informing users that the field cannot be too long.	Pass.
Very short name on add event	Input a very short name in the field and submit.	An error should display informing that the field cannot be too short.	Error is displayed informing users that the field cannot be too short.	Pass.
Start date is in the past on add event	Input a date in the past and submit.	An error should display informing that the chosen date is in the past.	Error is displayed informing users that the date is in the past.	Pass.
Start date is after end date	Input a date after the end date and submit.	An error should display informing that the chosen date must be before the end date.	Error is displayed informing users that the date must be before the end date.	Pass.
End date is in the past on add event	Input a date in the past and submit.	An error should display informing that the chosen date is in the past.	Error is displayed informing users that the date is in the past.	Pass.

End date is before start date	Input a date before the start date and submit.	An error should display informing that the chosen date must be after the start date.	Error is displayed informing users that the date must be after the start date.	Pass.
Dates on the same day	Input valid dates but on the same day and submit.	The form should submit as expected without error.	The form submits and works as expected without errors.	Pass.
Start time is in the past	Input a time in the past and submit.	An error should display informing that the chosen time is in the past.	Error is displayed informing users that the time is in the past.	Pass.
Start time is after end time	Input a time after the end time and submit.	An error should display informing that the chosen time must be before the end time.	Error is displayed informing users that the time must be before the end time.	Pass.
End time is in the past	Input a time in the past and submit.	An error should display informing that the chosen time is in the past.	Error is displayed informing users that the time is in the past.	Pass.
End time is before start time	Input a date before the start time and submit.	An error should display informing that the chosen time must be after the start time .	Error is displayed informing users that the time must be after the start time .	Pass.
Start date field is empty	Input nothing in the start date field and submit.	An error should display informing that the field cannot be empty.	Error is displayed informing the users that the date and time must be filled out.	Pass.
End date field is empty	Input nothing in the end date field and submit.	An error should display informing that the field cannot be empty.	Error is displayed informing the users that the date and time must be filled out.	Pass.
Start time field is empty	Input nothing in the start time field and submit.	An error should display informing that the field cannot be empty.	Error is displayed informing the users that the date and time must be filled out.	Pass.
End time field is empty	Input nothing in the end time field and submit.	An error should display informing that the field cannot be empty.	Error is displayed informing the users that the date and time must be filled out.	Pass.
Location field is empty	Input nothing in the location field	An error should display informing that the field	Error is displayed informing users that	Pass.

	and submit.	cannot be empty.	the field cannot be empty.	
Very long location name on add event	Input a very long location name in the field and submit.	An error should display informing that the field cannot be too long.	Error is displayed informing users that the field cannot be too long.	Pass
Very short location name on add event	Input a very short location name in the field and submit.	An error should display informing that the field cannot be too short.	Error is displayed informing users that the field cannot be too short.	Pass
Location field can be unique or pre-existing	Input a unique location and submit and also a pre-existing one using the search feature and submit.	No errors should display and the form should work as usual, the search bar should search through available locations.	No errors are displayed and the search bar looks through locations in the database, but unique entries are accepted.	Pass.
Brief description field is empty	Input nothing in the brief description field and submit.	An error should display informing that the field cannot be empty.	Error is displayed informing users that the field cannot be empty.	Pass.
Brief description field is too long	Input a very long description in the field and submit.	An error should display informing that the field cannot be too long.	Error is displayed informing users that the field cannot be too long.	Pass.
Brief description is too short	Input a very short description in the field and submit.	An error should display informing that the field cannot be too short.	Error is displayed informing users that the field cannot be too short.	Pass.
Brief description field allows new lines	Input new lines on the brief description and submit.	The new lines should be displayed on the event when it is up on the page.	The new lines are not working or added to the event page.	Fail, I learnt some more Jinja to allow new lines
Full description field is empty	Input nothing in the full description field and submit.	An error should display informing that the field cannot be empty.	Error is displayed informing users that the field cannot be empty.	Pass.
Full description field	Input a very long	An error should display	Error is displayed	Pass.

is too long	description in the field and submit.	informing that the field cannot be too long.	informing users that the field cannot be too long.	
Full description field is too short	Input a very short description in the field and submit.	An error should display informing that the field cannot be too short.	Error is displayed informing users that the field cannot be too short.	Pass.
Full description field allows new lines	Input new lines on the full description and submit.	The new lines should be displayed on the event when it is up on the page.	The new lines are displayed as expected on the event and admin page.	Pass.
Image field is empty	Input nothing in the image field and submit.	An error should display informing that the field cannot be empty.	Error is displayed informing users that the field cannot be empty.	Pass.
Image field only allows valid file types	Try putting in a non image type file.	The image file should not be allowed.	The non image files don't display when selecting an image, so valid types are forced.	Pass.
Image preview displays	Add a valid image in the field.	The image should be displayed as a preview.	The image is displayed for the user to see.	Pass.
Pending events are displayed in admin	Make some events and view them in the admin page.	All pending events and their info should be displayed.	Pending events and their relevant info are displayed in the admin page.	Pass.
Pending events can be accepted or denied in admin	Go to the admin page and accept/deny events.	The event should either be added to the public event page or deleted permanently depending on the action.	The event is either added to the events page or is deleted depending on the action.	Pass.
Publish results list reordering	Move around the different participants in the publish results form.	The user's potential time and name should stick with the moved row, along with the associated hidden id, though the placing should be correctly ordered(so the user can order for placings).	Placing is ordered correctly, and the other form values are unchanged.	Pass.
User ID's are unchangeable in the results form	Inspect element on the publish results form and	The form submission should not be validated and an error should be raised.	The form works as normal, inserting the altered results.	Fail, I added a check that

	alter the user ids hidden value field.			the user id is in the joined event.
Concluded event without participants	Have a concluded event without any participants who joined, and try to go to it.	The results section should say no participants joined, and work as normal, preventing publishing results.	The web page crashes as nothing was returned, so a backend if statement didn't work.	Fail, I added checks if the results were None.
Upcoming/Ongoing event without participants	View a non concluded event without participants yet.	The page should work as usual and the results section should say there are no results yet.	The page works as usual and results display that there are no results yet.	Pass.
Time being required if inputted	Add time in some places on the form but not in others.	An error should be raised that time must be inputted in all fields if it is inputted anywhere, and submission should be prevented.	An error is raised on each time input field that wasn't typed in, and submission is prevented.	Pass.
Time being optional in publish results	Don't input time in any field.	The form should submit as usual without time.	The form submits as usual without time.	Pass.
Time not being a number	Input non numeric values in the time field on publish results.	An error should be raised and form submission should be prevented.	An error is raised and form submission is prevented.	Pass.
Time non numerical prevention JS being overwritten with the inspect tool	Remove the error checking for non numerical prevention in the JS and input a non numeric value and submit.	An error should be raised as the back end will validate the inputs before submission.	An error is raised and form submission is prevented.	Pass.
Placement values being edited in inspect	Edit the placing number in the inspect menu.	Nothing should happen as placing is based on the index of the result in the form, not the placing number itself, that's just for visuals.	Nothing happens, and the placements stay as they should be when submitting, as they are just for visuals on the website.	Pass.
Time splitting into seconds and minutes	Input in both fields with a valid form and submit.	The time should be displayed in the results as xx:xx(or some other form of	Time is split into the correct format being(generally) x:xx.	Pass.

		the time). The seconds if below 10 should have a 0 in front.	E.g. 1:02.	
Time must be numeric when inputting in publish results form	Input a non numeric value in both the minutes and seconds fields and submit.	An error should be displayed to the user and form submission should be prevented.	An error is displayed and form submission is denied.	Pass.
Time field type being edited in the inspect tools	Edit the time fields in the inspect tool and make them a text field instead of number, then submit.	An error should be raised and submission should be cancelled.	An error is raised and submission is prevented.	Pass.
Time not being too long	Enter a really long time for the seconds and minutes and submit.	An error should be raised preventing submission and informing users of the error.	An error is raised informing the user of the error and submission is prevented.	Pass.
Seconds must be less than 60	Enter a number over 59 in the seconds field.	An error should be raised preventing submission and informing users of the error.	An error is raised that it must be 59 or below and submission is prevented.	Pass.
Times max value being changed with inspect	Edit the max values for time minutes and seconds with inspect and submit.	Form submission should be prevented and an error should be raised where the mistakes are.	An error is raised and form submission is prevented.	Pass.
Time minimum value being changed with inspect	Remove the minimum limit with inspect and enter a negative value in either time input field, then submit.	An error should be raised and form submission should be prevented.	An error is raised and form submission is prevented.	Pass.
Time being a negative value	Input a negative value in either of the time input fields and submit.	An error should be raised and form submission should be prevented.	An error is raised form submission is prevented.	Pass.
Time errors	Submit a form	All errors should be	All errors are shown	Pass.

displaying when causing errors through inspect tool	with purposeful errors caused by the inspect tool.	displayed on another column for the user to see.	for the user.	
Time inputs highlighting if inputted in	Put input into one of the time input fields but not others.	Red highlights should be displayed on every input that is not inputted in.	All non inputted time fields are highlighted red.	Pass.
Event title being inspected to have no limit in add event	Inspect the event title field and remove the max limit, then make it something very long, and submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Event title being inspected to be null	Inspect the event title field and remove the JS which prevents it from being null, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Event title being inspected to be too short.	Inspect the event title field and remove the min limit, then make it something very short, and submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Start date being inspected to be in the past	Override the JS with the inspect tool and input a date in the past then submit.	An error should display informing that the chosen date is in the past.	Error is displayed informing users that the date is in the past.	Pass.
Start date inspected to be after end date	Override the JS with the inspect tool and input a start date after the end date then submit.	An error should display informing that the chosen date must be before the end date.	Error is displayed informing users that the date must be before the end date.	Pass.
End date inspected to be in the past on add event	Override the JS with the inspect tool and input a date in the past then submit	An error should display informing that the chosen date is in the past.	Error is displayed informing users that the date is in the past.	Pass.

End date is inspected to be before start date	Override the JS with the inspect tool and input an end date before the start date then submit.	An error should display informing that the chosen date must be after the start date.	Error is displayed informing users that the date must be after the start date.	Pass.
Start time is inspected to be in the past	Override the JS with the inspect tool and input a time in the past then submit.	An error should display informing that the chosen time is in the past.	Error is displayed informing users that the time is in the past.	Pass.
Start time is inspected to be after end time	Override the JS with the inspect tool and input a start time after the end time then submit.	An error should display informing that the chosen time must be before the end time.	Error is displayed informing users that the time must be before the end time.	Pass.
End time is inspected to be in the past	Override the JS with the inspect tool and input a time in the past then submit.	An error should display informing that the chosen time is in the past.	Error is displayed informing users that the time is in the past.	Pass.
End time is inspected to be before start time	Override the JS with the inspect tool and input an end time before the start time then submit.	An error should display informing that the chosen time must be after the start time .	Error is displayed informing users that the time must be after the start time .	Pass.
Start date field is inspected to be empty	Override the JS with the inspect tool and input a null value then submit.	An error should display informing that the field cannot be empty.	Error is displayed informing the users that the date and time must be filled out.	Pass.
End date field is inspected to be empty	Override the JS with the inspect tool and input a null value then submit.	An error should display informing that the field cannot be empty.	Error is displayed informing the users that the date and time must be filled out.	Pass.
Start time field is inspected to be empty	Override the JS with the inspect tool and input a null value then	An error should display informing that the field cannot be empty.	Error is displayed informing the users that the date and time must be filled out.	Pass.

	submit.			
End time field is inspected to be empty	Override the JS with the inspect tool and input a null value then submit.	An error should display informing that the field cannot be empty.	Error is displayed informing the users that the date and time must be filled out.	Pass.
Start date inspected to not be a date field	Inspect the date field and make it a text field or something else, then submit.	An error should display that the input field is invalid and submission should be prevented.	Error is displayed informing the users that the date and time format is invalid.	Pass.
End date inspected to not be a date field	Inspect the date field and make it a text field or something else, then submit.	An error should display that the input field is invalid and submission should be prevented.	Error is displayed informing the users that the date and time format is invalid.	Pass.
Start time inspected to not be a time field	Inspect the time field and make it a text field or something else, then submit.	An error should display that the input field is invalid and submission should be prevented.	Error is displayed informing the users that the date and time format is invalid.	Pass.
End time inspected to not be a time field	Inspect the time field and make it a text field or something else, then submit.	An error should display that the input field is invalid and submission should be prevented.	Error is displayed informing the users that the date and time format is invalid.	Pass.
Location name being inspected to have no limit in add event	Inspect the location name field and remove the max limit, then make it something very long, and submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Location name being inspected to be null	Inspect the location name field and remove the JS which prevents it from being null, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Location name being	Inspect the	An error should be	An error is displayed	Pass.

inspected to be too short.	location name field and remove the min limit, then make it something very short, and submit.	displayed and form submission should be prevented.	and form submission is prevented.	
Brief description being inspected to have no limit in add event	Inspect the brief description field and remove the max limit, then make it something very long, and submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Brief description being inspected to be null	Inspect the brief description field and remove the JS which prevents it from being null, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Brief description being inspected to be too short.	Inspect the brief description field and remove the min limit, then make it something very short, and submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Full description being inspected to have no limit in add event	Inspect the full description field and remove the max limit, then make it something very long, and submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Full description being inspected to be null	Inspect the full description field and remove the JS which prevents it from being null, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Full description being inspected to be too short.	Inspect the full description field and remove the	An error should be displayed and form submission should be	An error is displayed and form submission is prevented.	Pass.

	min limit, then make it something very short, and submit.	prevented.		
Post date being inspected to be not today	Inspect the hidden post date field and make it a day other than the current date, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Post date being inspected to be none	Inspect the post date element and make it none, then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Account id being inspected to not be the users id	Inspect the account id hidden field and make it anything else, then submit.	An error should be displayed and form submission should be prevented.	It always displayed an error whether it was correct or not.	Fail, to fix I made the id's to compare the same type.
Image field inspected to be none	Inspect the image element and make it none.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Image field inspected to be an invalid type	Inspect the image field and make it a different field type like text then submit.	An error should be displayed and form submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Pending events/routes /locations displaying to user	Submit a valid event/route /location and go to the pending submissions section on the account.	All pending submissions should be displayed.	All pending submissions are displayed.	Pass.
Notification message when submitting something or making other actions	Submit an event/route /location or make another action like adding results or	A notification should display informing the user of success, or that their submission is pending.	A notification displays informing the user of success or that their submission is pending.	Pass.

	logging a route.			
Logging the same route multiple times	Log the same route multiple times with different inputs.	The rating of the route should update in your logged routes section.	A new logged route of the same route is added.	Fail, I added an update if it existed already.
Route id in logging routes being inspected to be something other than an integer	Inspect the route id hidden element and set it to something other than an int, then submit.	An error should be displayed and submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Route id set to none with the inspect tool in logging routes	Set route id to none with the inspect tool, then submit.	An error should be displayed and submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Route id not being an id in the routes table	Inspect the route id hidden element and set it to an id that is not in the database, then submit.	An error should be displayed and submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Rating in logging routes being something other than an integer 1-5	Inspect the rating and set it to a value other than 1-5, then submit.	An error should be displayed and submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
Date not being today in logging routes	Inspect the hidden date value and make it something other than the current date, then submit.	An error should be displayed and submission should be prevented.	An error is displayed and form submission is prevented.	Pass.
ID in event url query is empty	Edit the url on the event page, and change the query ID to be null.	The user should be redirected to the 404 page.	The user is redirected to the 404 page.	Pass.
ID in event url query is not a valid digit	Edit the url on the event page, and change the query ID to not be a valid digit, like "a", "2.3",	The user should be redirected to the 404 page.	The user is redirected to the 404 page.	Pass.

	"-1" etc.			
ID in event url query is not an existing ID	Edit the url on the event page, and change the query ID to not be an existing ID in the database, e.g. "999".	The user should be redirected to the 404 page.	The user is redirected to the 404 page.	Pass.

## Sprint 4 - Filtering and Searching

In this sprint I plan to add filtering to all the pages, so you can filter and search for routes in the climbing map, search for certain posts, and search for certain events. They will all be filtered based off of tags, and a search bar with filter options will be added to each page.

## Sprint 5 - Forum and Posts

In this sprint I plan to implement the basic posting and forum mechanics, so users can create posts about climbs they've done, and interact and communicate with each other through the app. This will be the social media side of my app. I also plan to revamp accounts in this sprint with more customisation and options.

## Sprint 6 - Styling

In this sprint I plan to style everything with CSS to make it visually appealing, I will make things intriguing by incorporating javascript for some more dynamic styling.

## Removing Sprints

I decided to remove the previous three sprints, being filtering, posts, and styling, as I believe I won't have the time to fully implement these sprints and their features. Generally they are unnecessary, filtering is just for the user's experience, events is a more climbing related feature than

posts (and are essentially the same), and styling was just an extra and has been implemented throughout the sprints instead. Removing these sprints will allow me more time to focus on polishing the website and accounting for all errors and bugs.

## **Relevant Implications**

### **Media Website**

#### **Aesthetics**

Aesthetics in the context of a media outcome is to do with how appealing the outcome is visually for the end users. A media outcome with good aesthetics will be nice to look at and will have made good stylistic design choices such as colours, fonts, layouts, etc. A media outcome/website with bad aesthetics will be unappealing for users and will disencourage their engagement with the outcome leading to less users using the website.

I addressed aesthetics within my website in many ways such as my consistent colour scheme and layout. Throughout the website I have kept a consistent colour scheme of yellow, browns, and cream colours, which can be observed in every page of the website. Maintaining a consistent colour scheme improves aesthetics as if I had varying colours throughout the website, users may feel unappealed by colour inconsistency which could lead them to stop using the website.

Another way I addressed aesthetics is through my simplistic layout throughout my pages. I have ensured the layouts on my pages are clean and simple by making them in boxes which are clear to see and have nicely displayed information. Making a simple and clean layout across pages improves the aesthetics for users which will encourage them to use the website more, as they find the display of information and visuals appealing and nice to look at.

## **Usability**

Usability in the context of a media outcome refers to how easy the website(outcome) is to use. A website with good usability will provide users with an easy website to use and navigate. This could be done such as making inputs simple like in forms, making navigation clear and instantly obvious, etc. A website with bad usability will be very unclear as to how it is used, and it will be difficult to use. This may cause confusion and frustration amongst users which could lead them to not using the website, and could lead to long term effects like them not returning to the website if they get a bad impression of its usability, leading to less users using the website.

I addressed usability in my website by ensuring that my many features are simple and clear to use. One way I addressed this is throughout all my forms I made inputs for them as clear and simple as possible, for example having a search feature when entering a location to add a route, right clicking on the map in a location to add a location, and ordering results for a concluded event by dragging and reordering the participants. These features in my forms make them simple to use, so users won't be confused while completing them and will be able to complete them quickly. This will motivate users to use my website more as they can easily use it without any frustration.

## **Database**

### **Privacy**

Privacy in the context of a database is to do with how the data is stored, and whether it's safe and secure. A database with good privacy will keep users data secure from any malicious hacks which may threaten their privacy. This will make users feel safe while inputting personal data and improve engagement. On the other hand a website with bad privacy will make users feel unsafe when inputting personal data, and they will most likely not use it at all if they know their privacy is at risk.

I addressed privacy by ensuring that users' private information is kept safe and secure in my database. I've done this through hashing their passwords which means that any potential hackers will not be able to obtain users passwords as they are kept secure and hidden. Keeping passwords secure by hashing them will make users feel safe inputting their personal data, which improves engagement with my overall project.

## **Future Proofing**

Future proofing in the context of a database is to do with how the data is kept up to date and consistent with the passage of time. A database with good future proofing will ensure that all of its information is kept up to date, and doesn't become inaccurate through displaying outdated information. This will improve user engagement as they will be given accurate and up to date information. A database with bad future proofing will have outdated information and data which may now be inaccurate. Engagement with users will be lost if this happens due to informing them of misinformation which is no longer valid.

I addressed future proofing in my database by ensuring that my data is kept up to date, and anything new is able to be implemented. One way I did this is by allowing users to input new information, such as new climbing routes/locations that may not have existed when my database was created. So they are able to keep the data up to date by inputting any new information that comes around. As well as that my events are kept up to date, as I have added time fields to them which are used in my website to determine whether they're upcoming, ongoing, or concluded. Allowing for new information to be added and updating the status of events will improve user engagement as they know that the displayed data is accurate and able to be kept modern and up to date.