



SportsHub

Community Sports Facility Management System

Sprint 3

Sprint Review - 22/04/25

-Present

- Nathan Le Roux
- Joshua Weppelman
- Dewald Smal
- Ibrahim Vorajee
- Justin Perumal
- Mohammed Gori

-Date and Location

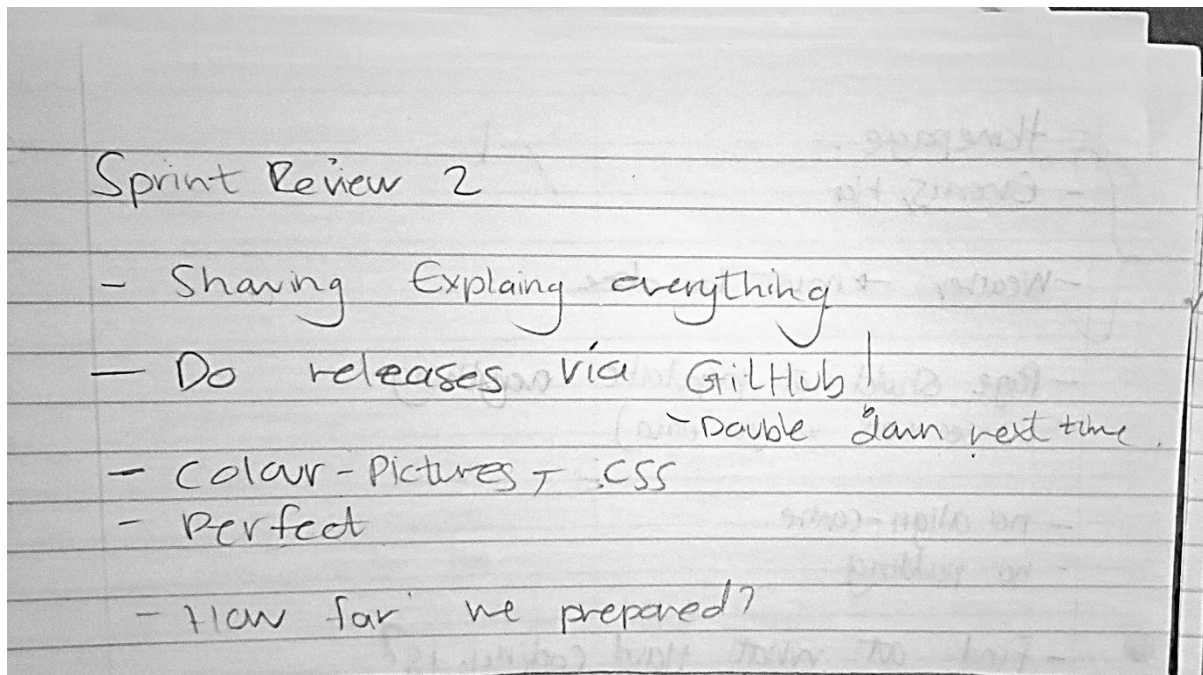
Date: 22 April 2025 at around 14:30

Meeting took place in person in inside MSB with client.

-Brief Description

The team reviewed progress on the website, noting positive client feedback on the front-end development as well as the back-end development. There's a suggestion to do more of the backend. Sprint 3 focused on now implementing wireframes and mock-ups, with 50% code coverage achieved. UML diagrams were on point. A key challenge identified is the inability to directly access personnel information, requiring queries to the backend. Facility localization is also needed, and there are concerns about arbitrary facility data. Testing includes checking facility coverage, and the team discussed using Codecov or a similar tool. Integration with GitHub is ongoing. Client suggested we work on adding more GUI components.

-Proof



Sprint Retrospective - 22/04/25

-Present

- Nathan Le Roux
- Joshua Weppelman
- Dewald Smal
- Ibrahim Vorajee
- Justin Perumal
- Mohammed Gori

-Date and Location

Date: 22 April 2025 at around 15:00

Meeting took place in person in inside MSB.

-Brief Description

Focus: Booking engine, admin controls, facility search.

✓ What Went Well (Continue):

- Booking system met MVP requirements.
- Admin workflows were validated through early feedback.

⚠ What Didn't Go Well (Stop):

- Facility search performance was slower due to query design.

- Misalignment between UI components and booking logic initially.

💡 Improvements (Start):

- Start sprint with end-to-end flow walkthrough (booking to admin approval).
- Optimize Firestore queries early in design.

Who did what?

- Nathan Le Roux – Issue Page
- Joshua Weppelman – Back-End
- Dewald Smal – Tests & Code Coverage 60%
- Ibrahim Vorajee – UML Diagrams & Main Page Functionality
- Justin Perumal – Booking Improvements
- Mohammed Gori – GUI Improvements & Compiled all Sprint Documentation

Notion

| SD-Project | | | | | | | | | |
|-------------------------------|------|-------------|---|-----------------|------------|--------|-----------------|---|--|
| Sprint 2 Docs | OPEN | Done | M | Mohammed Gori | 04/22/2025 | High | | | |
| Checking Booking Availability | OPEN | Done | J | Justin | | High | | | |
| Database for Venues | OPEN | Done | M | Mohammed Gori | 04/22/2025 | High | setup | | |
| Main Page Functionality | OPEN | Done | I | Ibrahim Vorajee | 05/05/2025 | High | Front-End | Add functionality to Main Page Weather, | |
| GUI Improvements | OPEN | Done | M | Mohammed Gori | 05/05/2025 | Medium | | 1) More color everywhere 2) add logos to | |
| Code Coverage 60% | OPEN | Done | D | Dewald Smal | 05/05/2025 | High | Feature request | Get up to 60% code coverage | |
| Booking Improvements | OPEN | Done | J | Justin | 05/05/2025 | High | Front-End | General improvements to bookings functi | |
| Sign Out Functionality | OPEN | Not started | | | | Low | | Adding a sign-out button. | |
| Issues Page - 2 Page | OPEN | Done | N | Nathan Le Roux | 05/05/2025 | High | Front-End | Adding a two - page system for the Issues | |
| Release | OPEN | Done | | | | High | | Upload a release before next meeting. | |
| Back-End | OPEN | Done | J | Joshua Weppelm | 05/05/2025 | High | setup | Back-End development continued | |
| Sprint 3 Docs | OPEN | Done | M | Mohammed Gori | 05/05/2025 | | | | |
| + New task | | | | | | | | | |

User Stories

| Identifier | User Story |
|------------|------------|
|------------|------------|

| | |
|------|---|
| US 1 | As a user, I want to see a welcome message on the homepage, so that I feel part of the community |
| US 2 | As a user, I want to be able to report a maintenance issue, so that I can prevent any accidents. |
| US 3 | As a user, I want to be able to view all in progress maintenance requests so that I can make sure they are finished. |
| US 4 | As a user, I want to be able to view all completed maintenance requests so that I can keep a record of them. |
| US 5 | As a user, I want to be able to view all scheduled maintenance requests so that I can delegate them. |
| US 6 | As a user, I want to be able to view all venues so that I can choose one to book. |
| US 7 | As a user, I want to view the weather conditions affecting outdoor facilities so that I can plan my activities accordingly. |

User Acceptance Tests (UATs)

US 1 – View Welcome Message

Given I am a logged-in user

When I visit the homepage

Then I should see a welcome message that makes is awesome

US 2 – Report Maintenance Issue

Given I am a logged-in user

When I navigate to the maintenance reporting page

And I fill in the issue details

And I submit the form

Then the issue should be recorded and visible in the system as pending

US 3 – View In-Progress Maintenance Requests

Given I am a logged-in user

When I navigate to the maintenance page

Then I should see a list of maintenance requests with a status marked as “In Progress”

US 4 – View Completed Maintenance Requests

Given I am a logged-in user

When I navigate to the maintenance page

Then I should be able to filter and view requests with the status “Resolved”

US 5 – View Scheduled Maintenance

Given I am a logged-in user

When I access the scheduled maintenance section

Then I should see a list of upcoming maintenance tasks

US 6 – View All Venues

Given I am a logged-in user

When I open the facilities page

Then I should see a list of all venues with their names, quantity, and capacity

US 7 – View Weather for Outdoor Facilities

Given I am a logged-in user

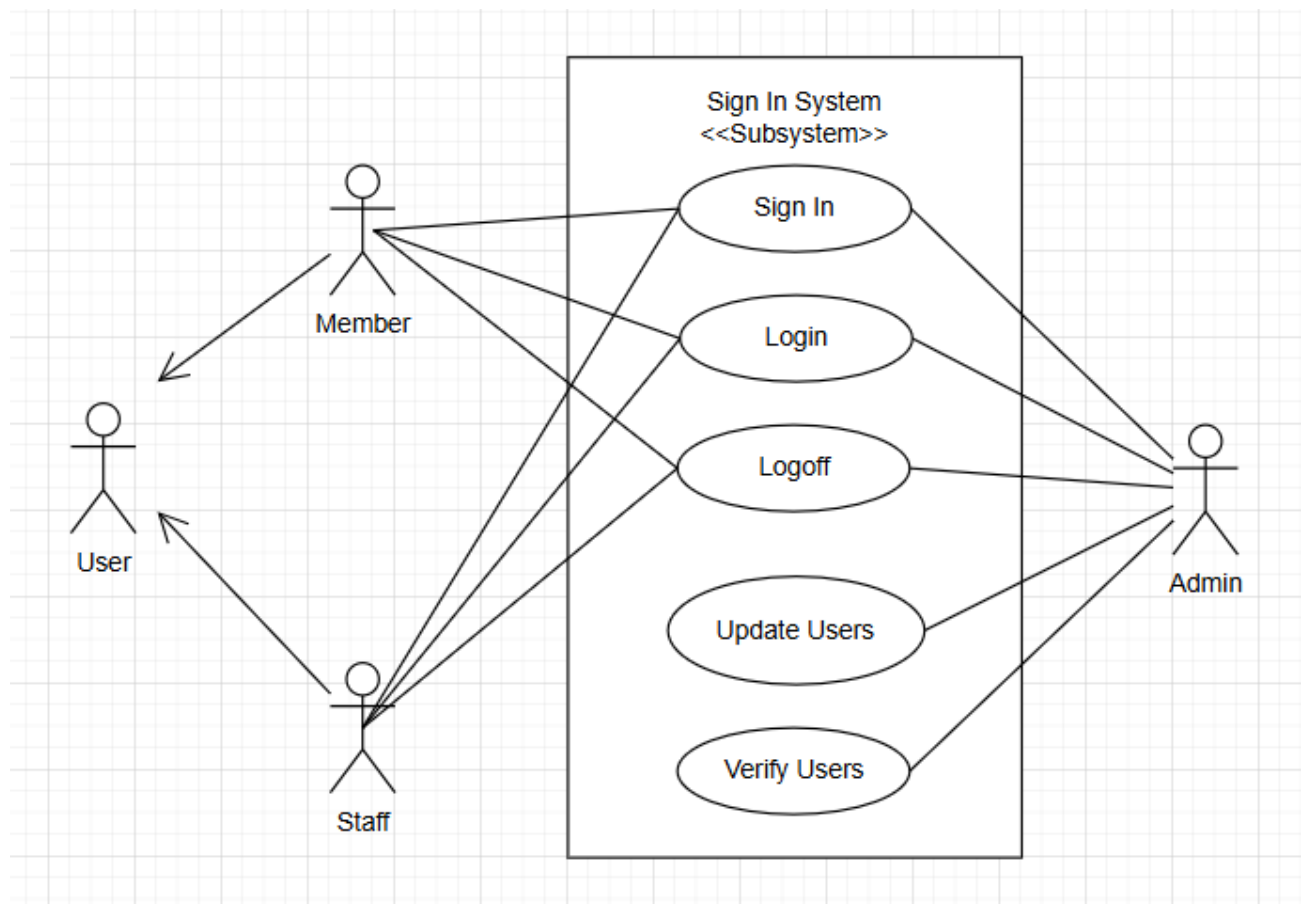
When I visit the homepage or weather widget

Then I should see real-time weather information for Sherwood, Durban

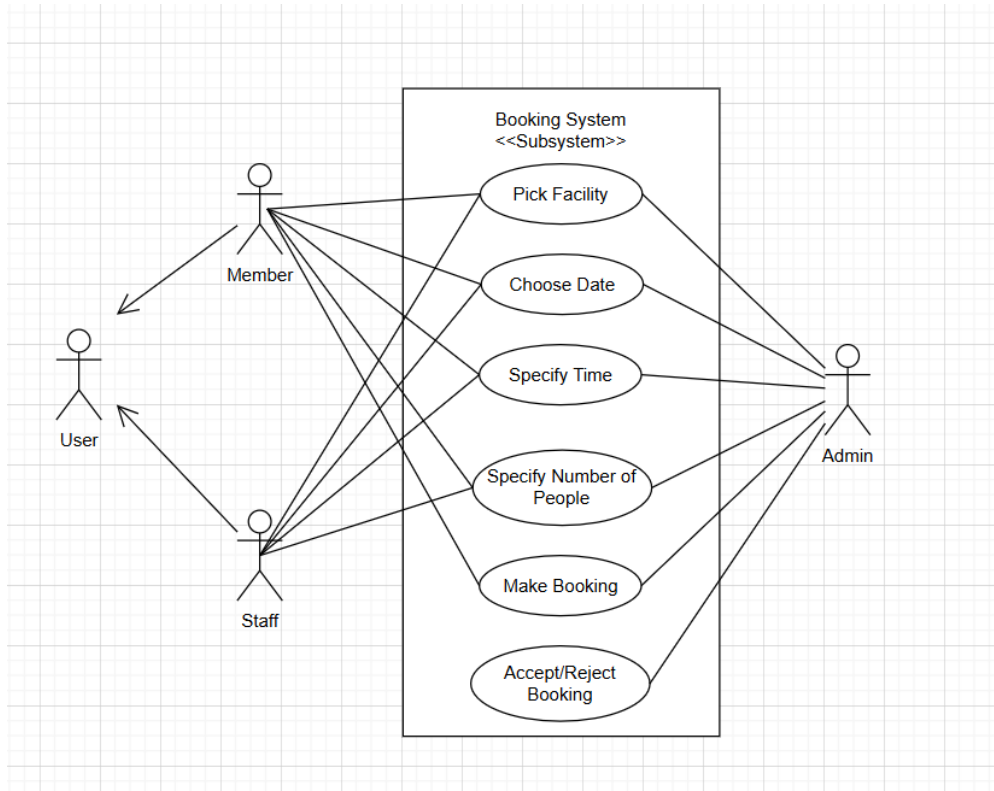
And I should be able to view forecasts that help me decide on outdoor bookings

UML Diagrams

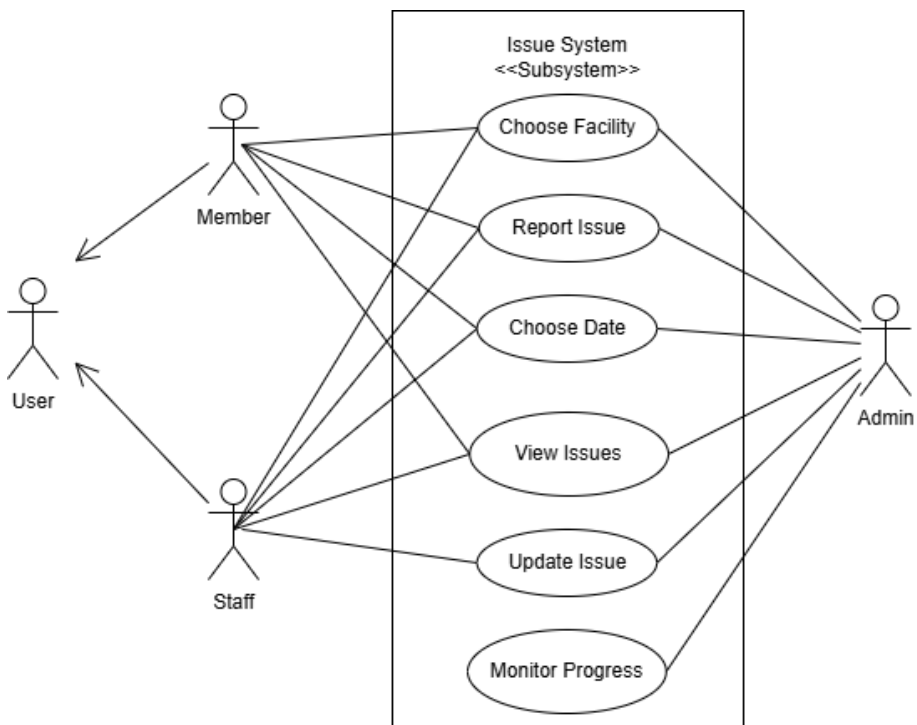
Use Case Diagram (Sign in)



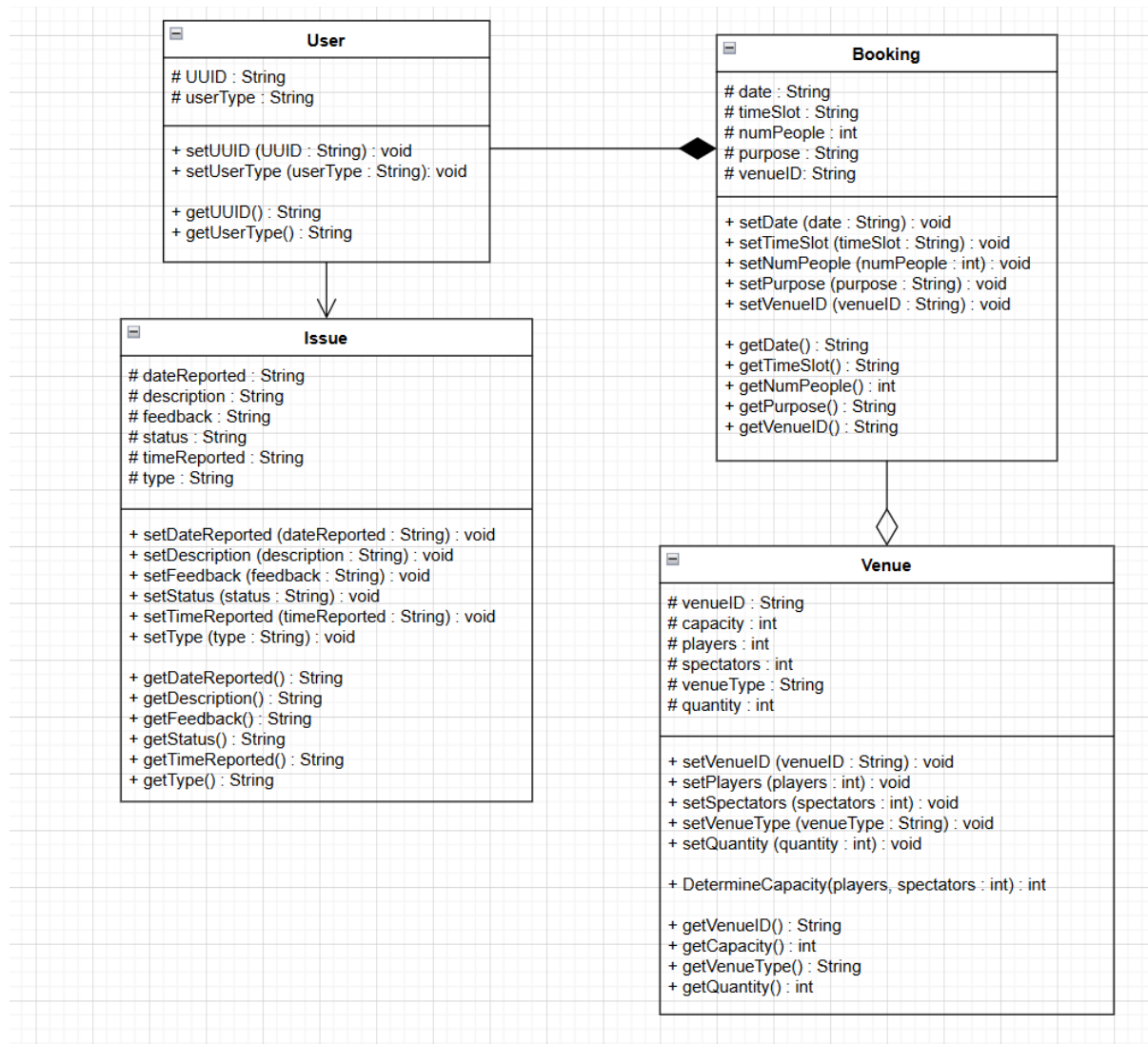
Use Case Diagram (Booking)



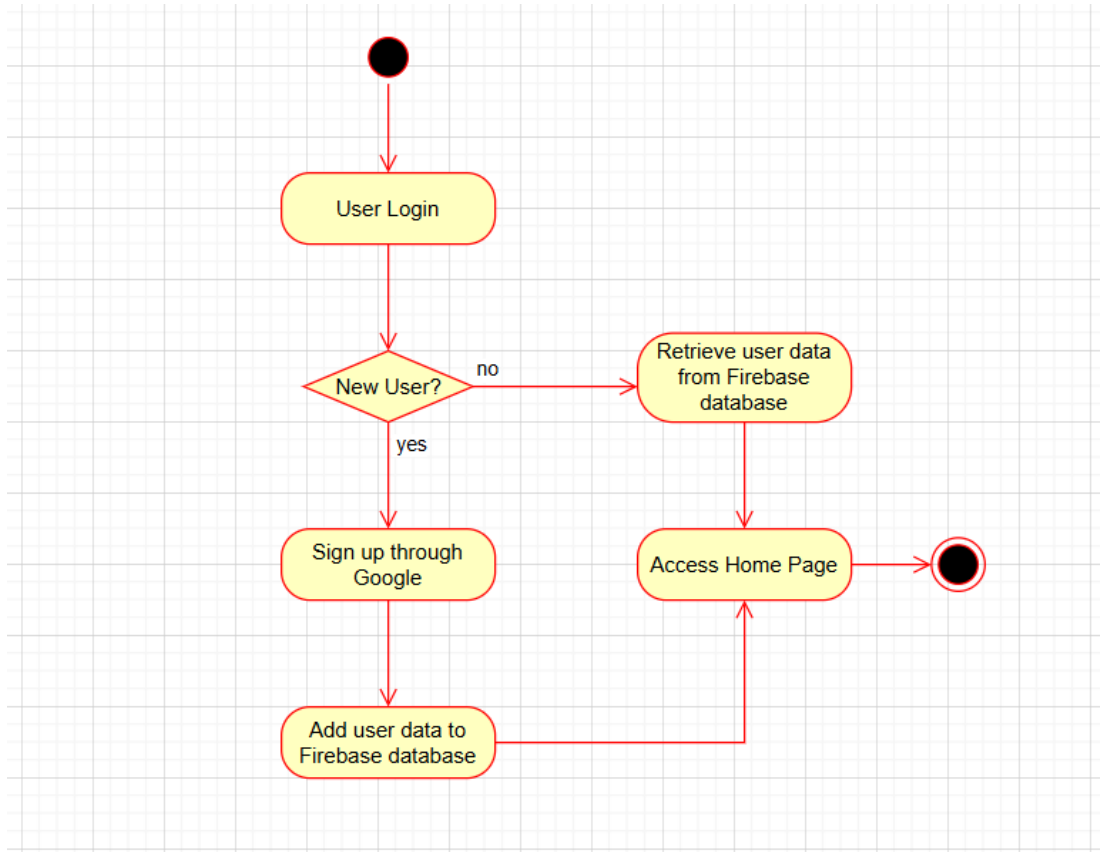
Use Case Diagram (Issues)



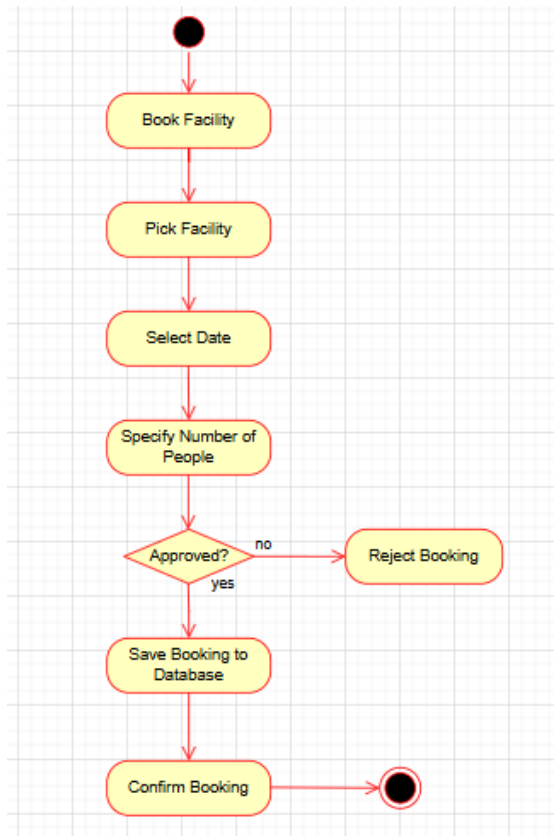
Class Diagram



Activity Diagram (Sign in)

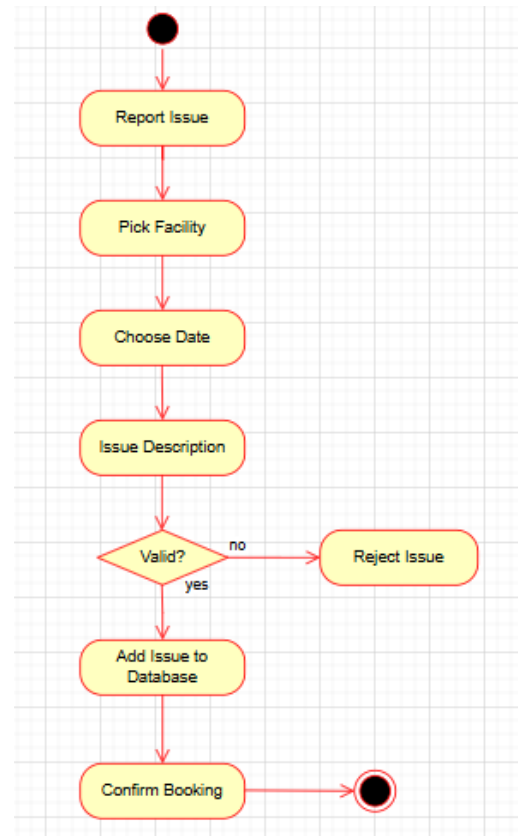


Activity Diagram (Bookings)

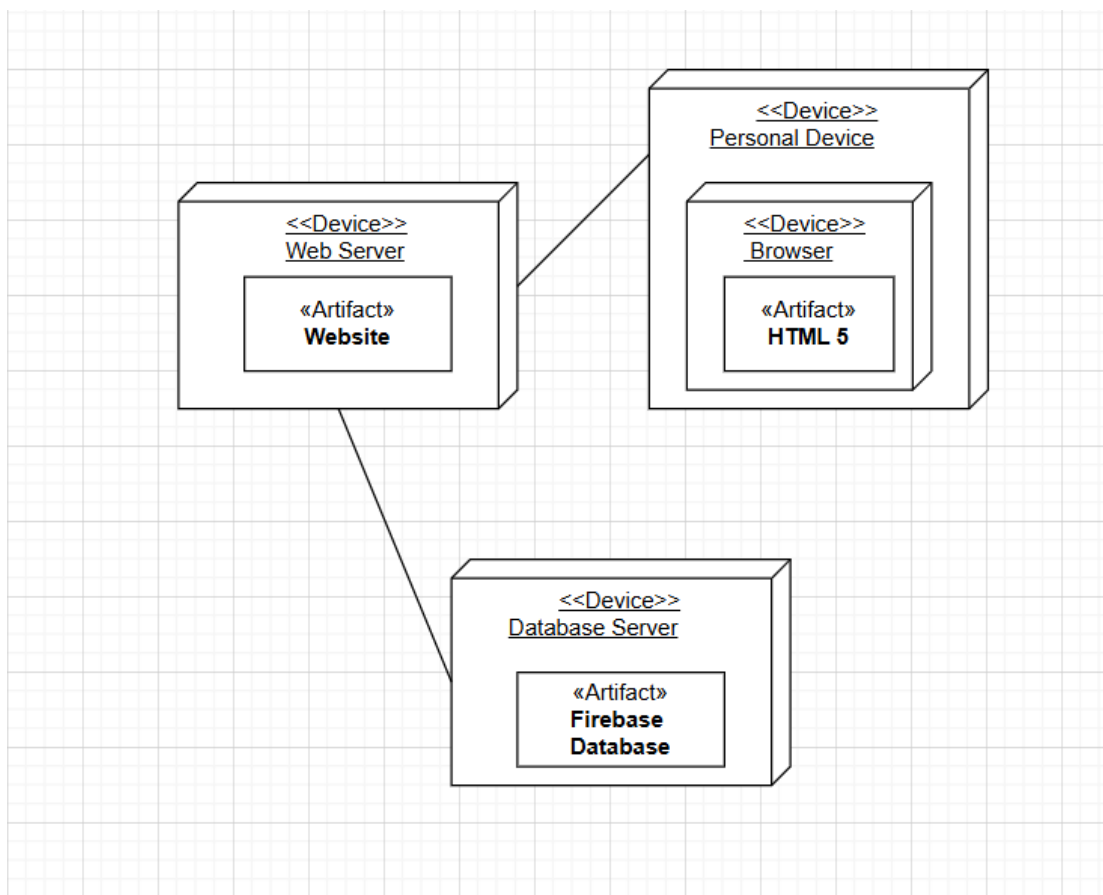


(Issues)

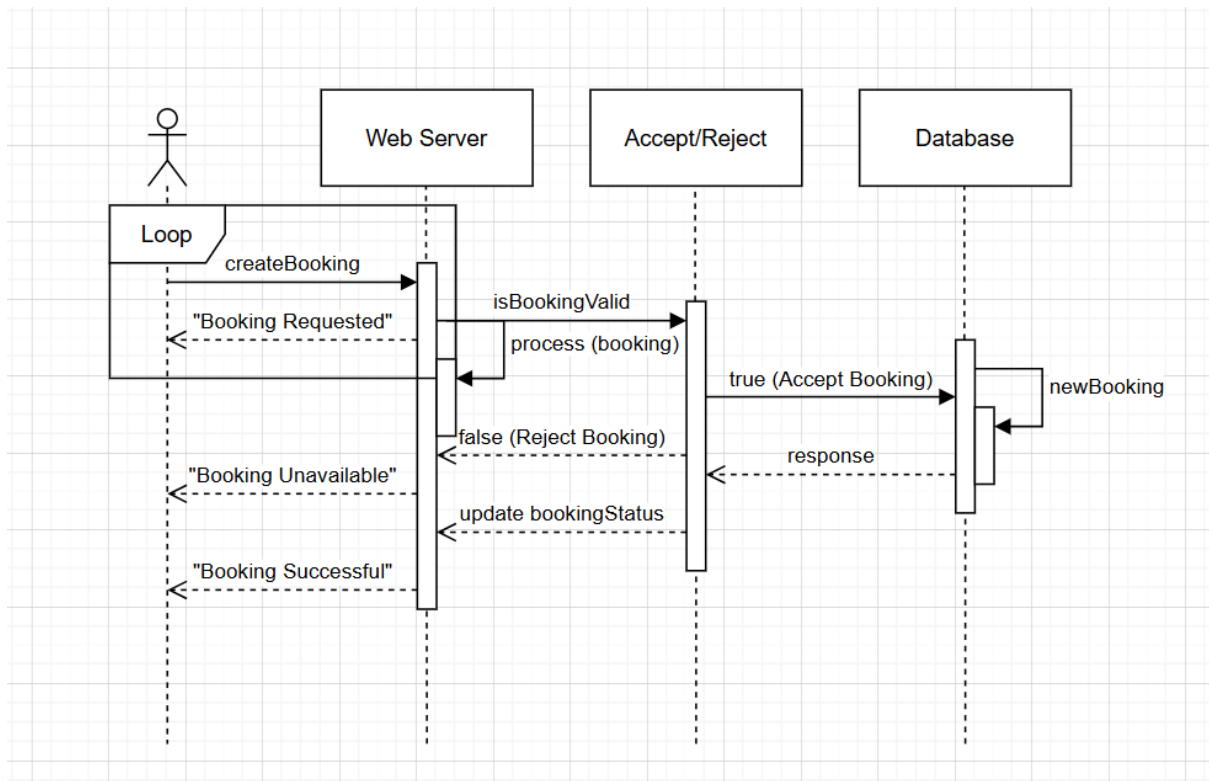
Activity Diagram



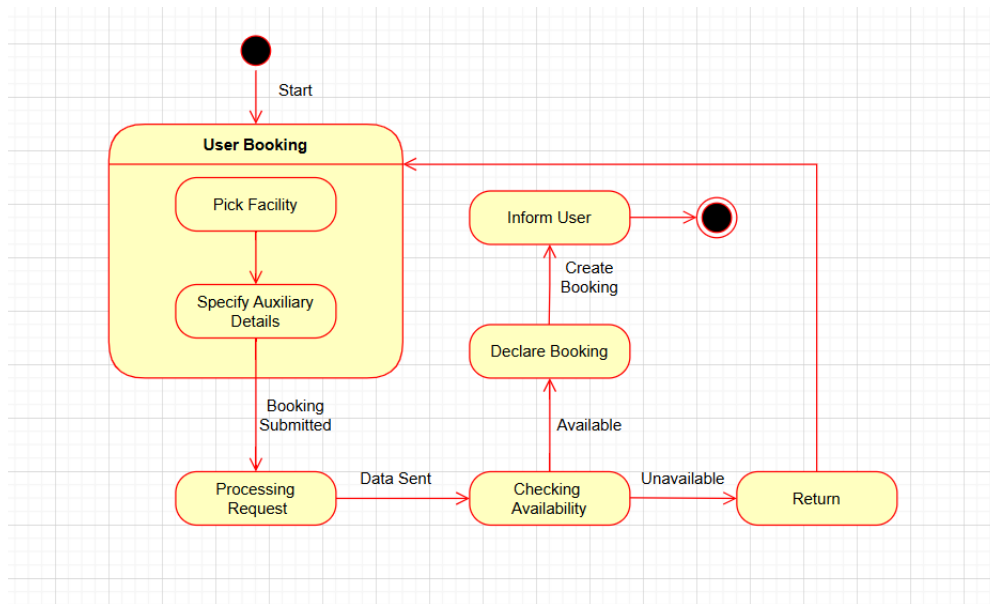
Deployment Diagram



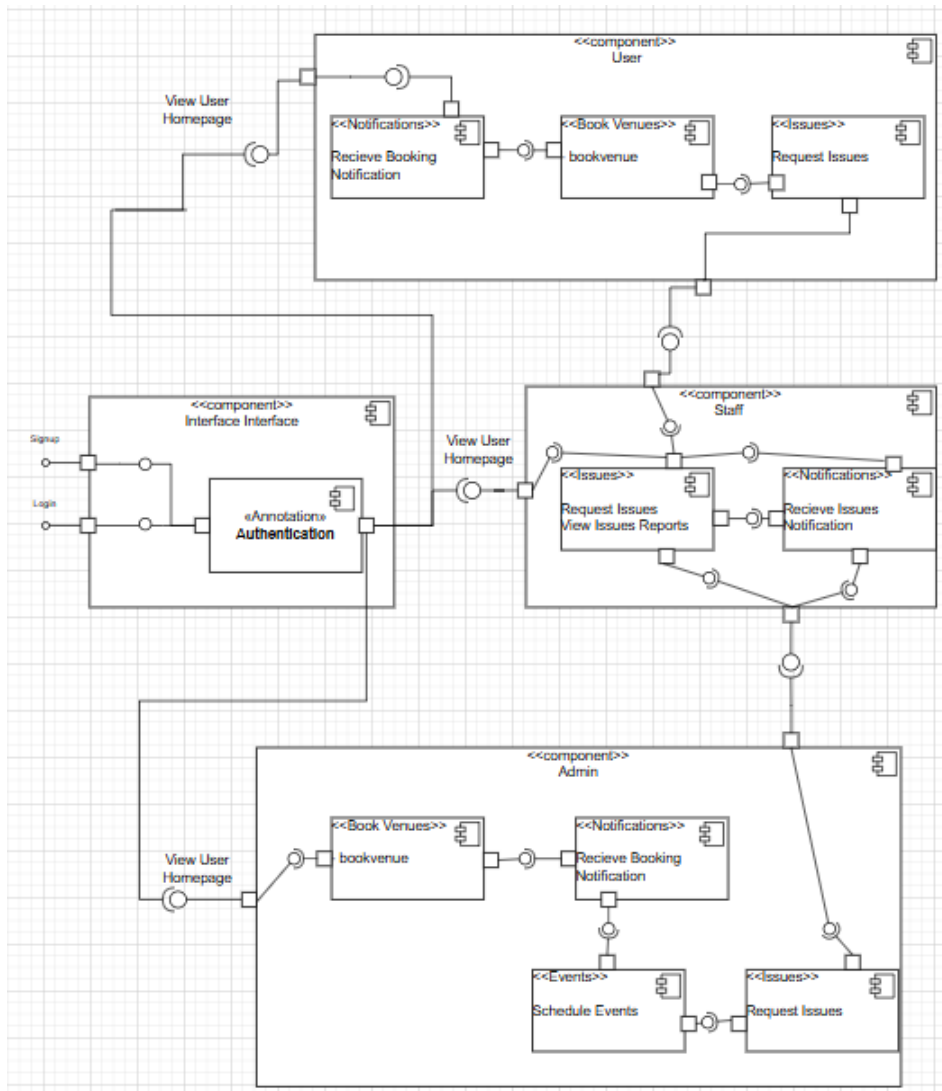
Sequence Diagram



State Diagram

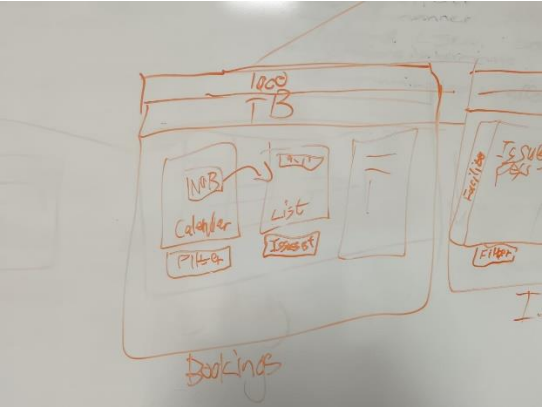


Component Diagram



Wireframes vs Actual

Booking



[Home](#) [Issues](#) [Bookings](#) [Facilities](#) [Updates](#) [Admin](#)

Make a booking

Archery Range

May 2025

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
| 28 | 29 | 30 | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | 1 |

Enter the following details

Time:

Select a time

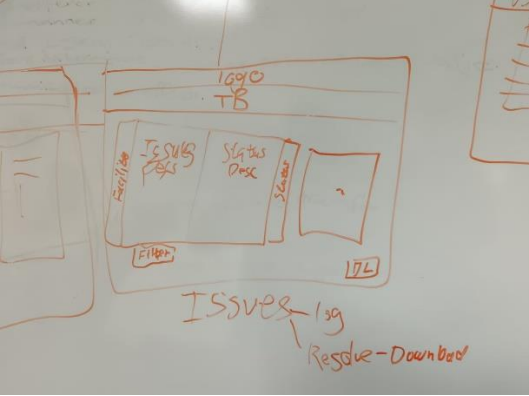
Number of people:

1

Purpose:

e.g., Birthday party, practice, etc.

Issues



[Home](#) [Issues](#) [Bookings](#) [Facilities](#) [Updates](#) [Admin](#)

Issue List

Filter by Date:

yyyy/mm/dd

Filter by Facility:

All Facilities

| Date | Facility | Type | Description | Update | Issue Status |
|-----------------------|---------------------------|-------------|-----------------------------------|---------------------|--------------|
| Unknown | | | | | |
| 4/26/2025 11:20:00 PM | Main Gym | maintenance | Broken light in the gym | Needs urgent repair | In Progress |
| 5/4/2025 4:14:23 PM | Soccer Field (Full-sized) | Access | Grass too long, cant play soccer. | | Resolved |
| 4/26/2025 8:57:21 PM | Multi-purpose Hall | Maintenance | Checking | | Unresolved |
| 4/30/2025 3:44:16 PM | Climbing Wall | Booking | Test2 | Fixing | In Progress |

Report an Issue

Facility:

Select a Facility

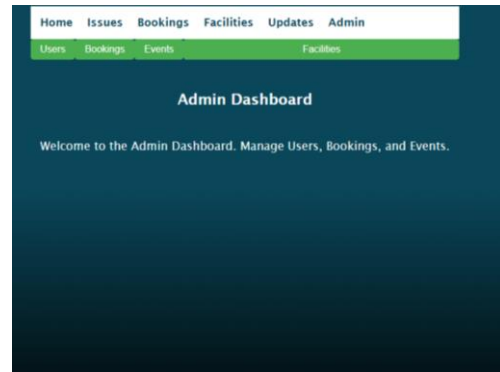
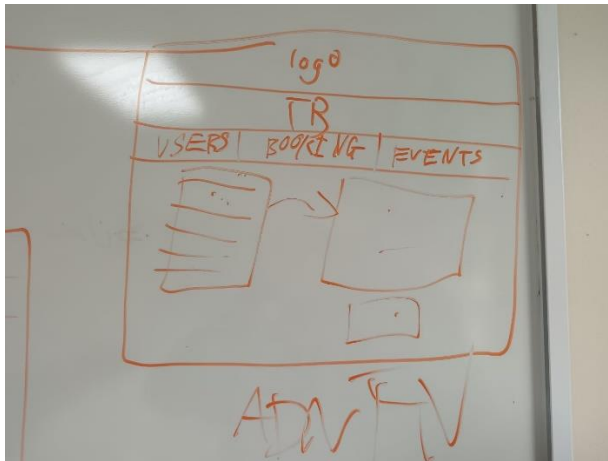
Issue Type:

Maintenance

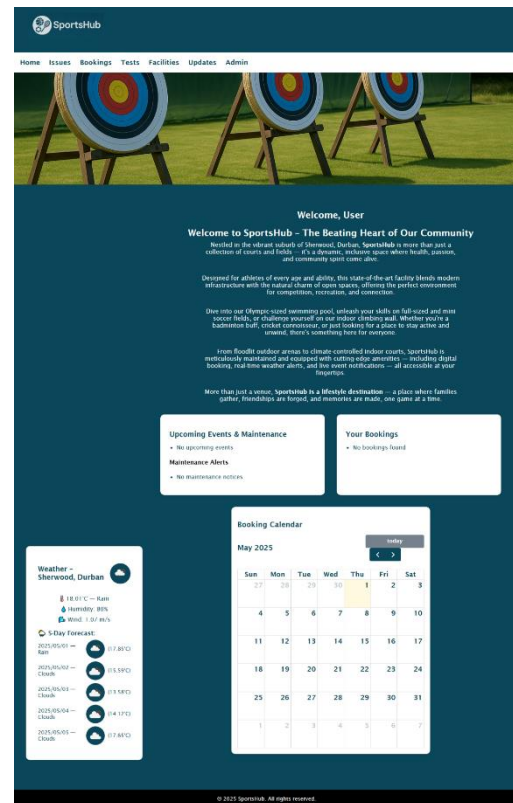
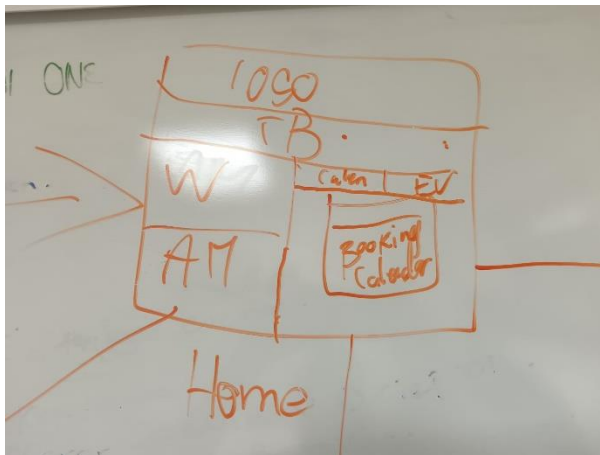
Description:

Submit Report

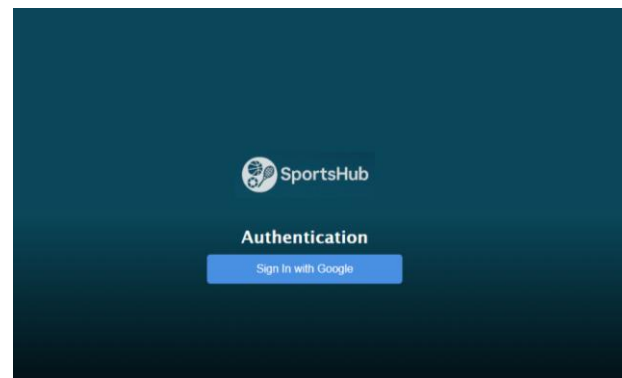
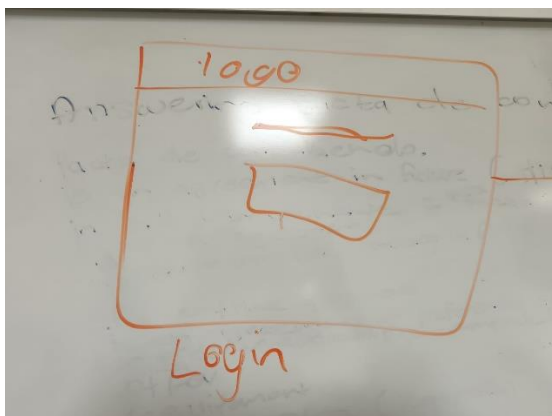
Admin



Home



Login



Meetings

1. Meeting

1.1 Present

- Nathan Le Roux
- Joshua Weppelman
- Dewald Smal
- Ibrahim Vorajee
- Justin Perumal
- Mohammed Gori

1.2 Date and Location

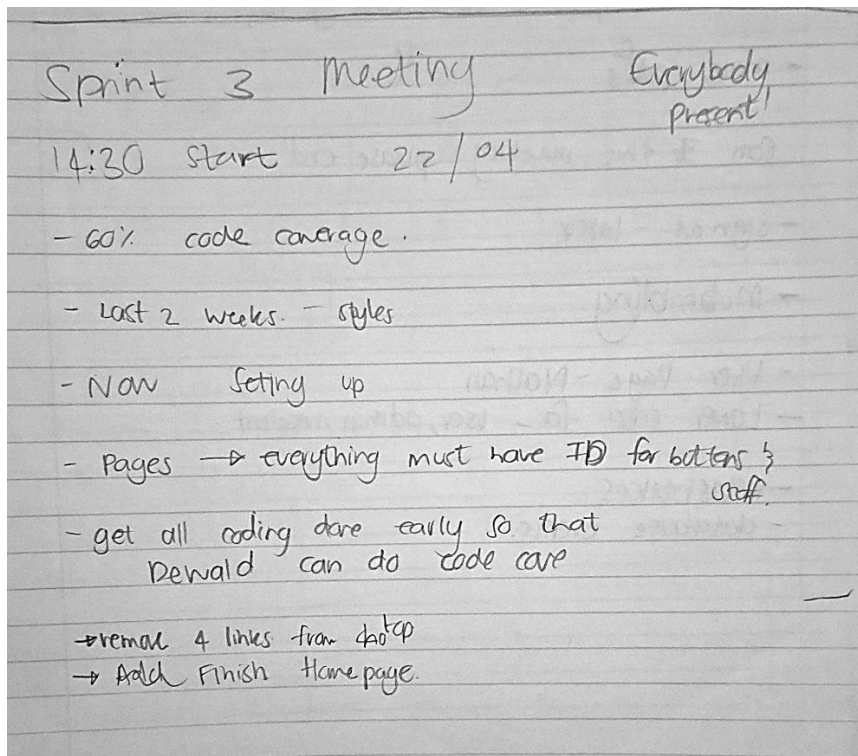
Date: 22 April 2025 at around 15:00

Meeting took place in person in outside MSL

1.3 Brief Discussion

This meeting was a brief discussion on the client had said. The meeting looked at what was previously done and what needed to be for the next sprint. Tasks for the next sprint were discussed.

1.4 Proof



2. Meeting

2.1 Present

- Nathan Le Roux
- Joshua Weppelman
- Dewald Smal
- Ibrahim Vorajee
- Justin Perumal
- Mohammed Gori

2.2 Date and Location

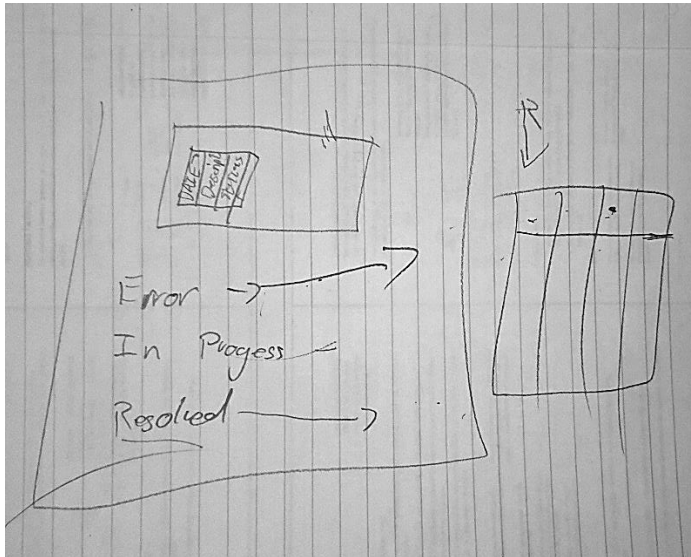
Date: 22 April 2025 at around 16:00

Meeting took place in person in CLM library Discussion Room 5

2.3 Brief Discussion

The meeting addressed several key aspects of the project. The team discussed the application of scrum methodology and outlined the requirements to be addressed by the following week. A significant portion of the discussion focused on requirement engineering and defining user roles, specifically what residents, staff, and administrators will be able to do within the system, while continuing from the previous meeting. Tasks were assigned to each member. A revised wireframe was also drawn.

2.4 Proof



Homepage.

- Events, Har

- Weather → must be done.

- Page should not populate everything.

- (2 sec wait to get data)

- no align-centre.

- no padding

- Find at what hard coding is?

- make pdfs

Can I this meeting please end!

- Sign at - later.

- Motombling

- User Page - Nathan.

- Lower case for user, admin, resident.

- ~~betas~~ realises

- database events.

3. Meeting

3.1 Present

- Nathan Le Roux
- Joshua Weppelman
- Dewald Smal
- Ibrahim Vorajee
- Justin Perumal
- Mohammed Gori

3.2 Date and Location

Date: 24 April 2025 at around 17:05 and ended at 17:51

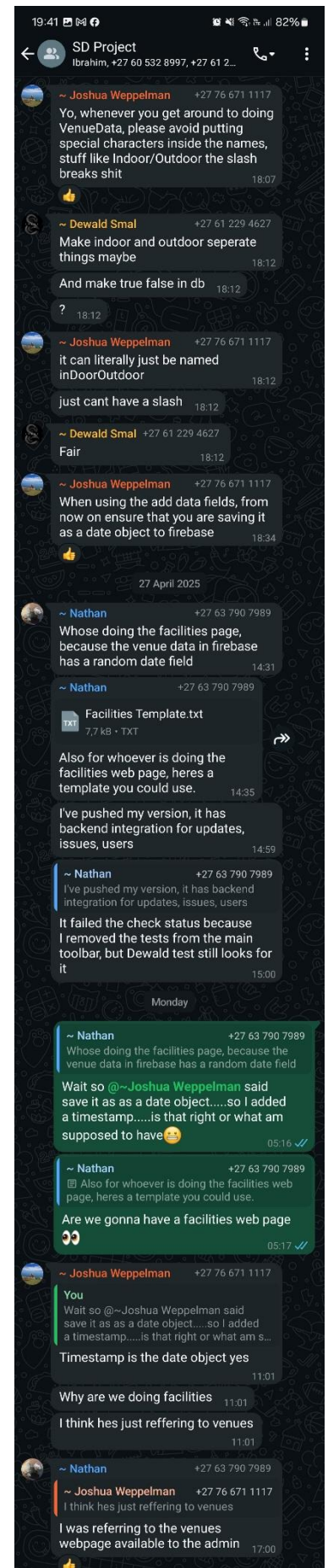
Meeting took place on WhatsApp

3.3 Brief Discussion

The team briefly discussed, how everyone was coping. Joshua and Dewald suggested making the database look/ seem better. Mohammed and the missing Ibrahim later also agreed. Nathan added that he had done his work and helped Mohammed out with a facility page.

3.4 Proof

To the right.



4. Meeting

4.1 Present

- Nathan Le Roux
- Joshua Weppelman
- Justin Perumal
- Mohammed Gori

4.2 Date and Location

Date: 28 April 2025 at around 17:00

Meeting took place on WhatsApp.

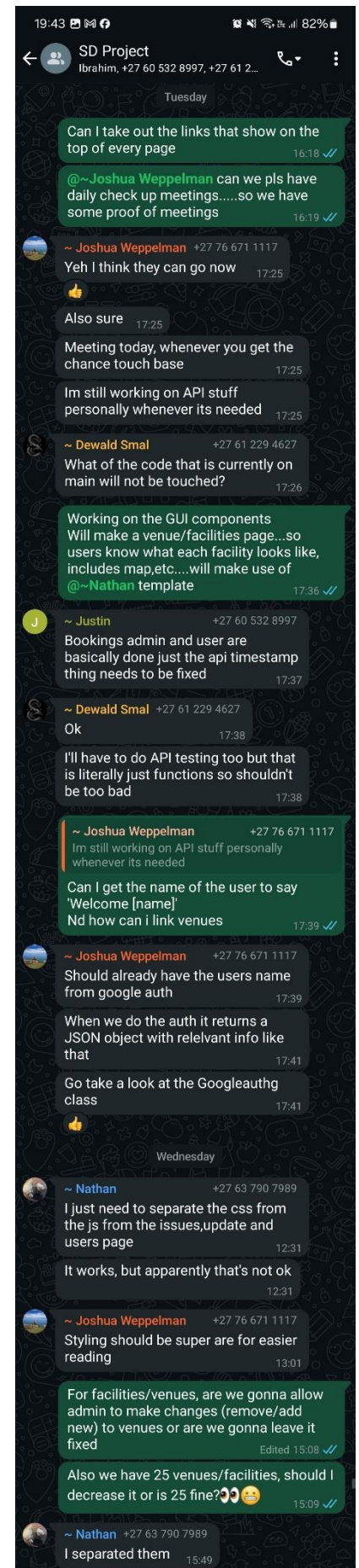
4.3 Brief Discussion

The meeting began with a general check-in, followed by Nathan's update on submitting his issues.js file and Mohammed's confidence in Josh's explanations. The main focus shifted to the upcoming meeting on UI design and website appearance, with Josh mentioning a basic wireframe and his intention to review the existing database and API setup. A brief technical explanation of "link" and "rebase" was provided to Nathan, and the choice of Firebase as the database was discussed and justified. The absence of Dewald and Justin was noted, with Ibrahim sending his apologies. Mohammed asked about personalising the user page by adding the user's name. The session concluded.

4.4 Proof

To the right.

5. Meeting



5.1 Present

- Nathan Le Roux
- Joshua Weppelman
- Dewald Smal
- Ibrahim Vorajee
- Justin Perumal
- Mohammed Gori

5.2 Date and Location

Date: 1st of May 2025 at around 05:00pm

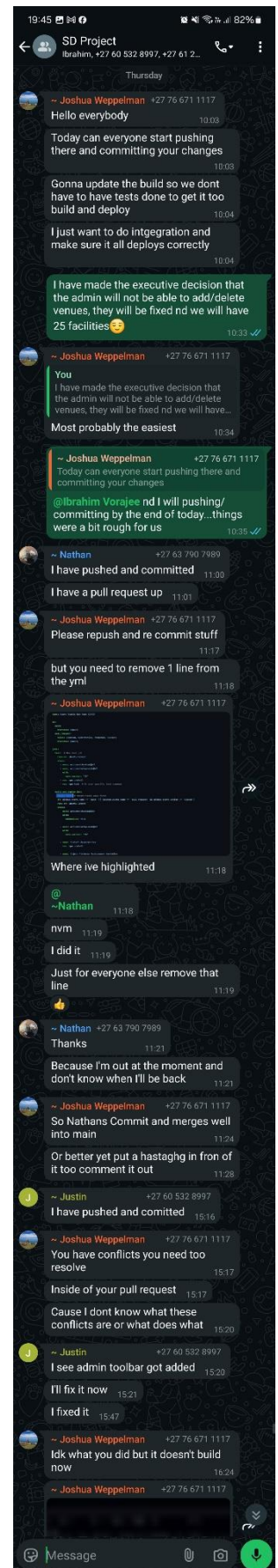
Meeting took place on WhatsApp.

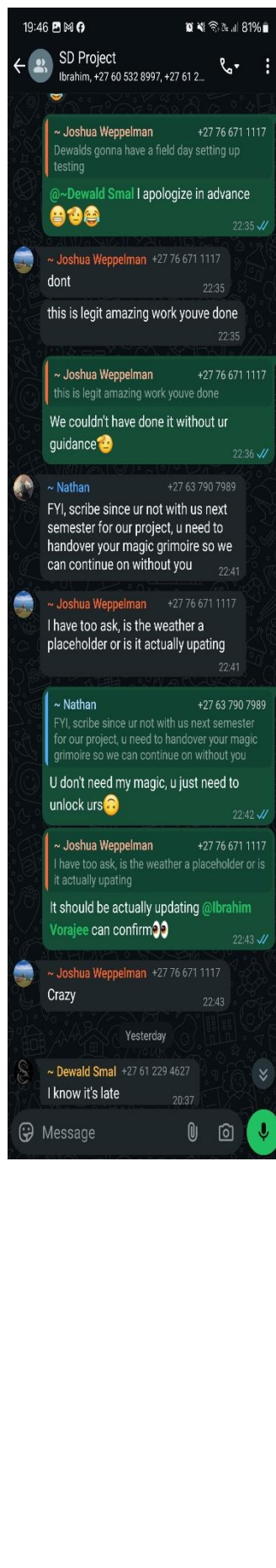
5.3 Brief Discussion

The meeting on workers day, working on workers day, yeah neh, why, why. But life must move on. with everyone present from 15:00 to 16:28, covered several key topics. Branches were merged, and a basic CSS file was added. The team discussed how to deploy to Azure and scheduled an in-person wireframe discussion for Monday. Firebase was a significant point, focusing on authentication, storing user data in the database (allowing admins to see all users), its NoSQL nature, and JSON data storage. Joshua explained the sign-up/login process using React and how to organize files. API functionalities using Firebase were also explained, along with how to use Firebase to store data for different user roles (Admin/Staff/User). Finally, the use of GitHub Actions for continuous integration was discussed. Ibrahim Vorajee aka the Mufti Saheb was not present for some odd reason this was noted. We asked him kindly to explain his absence, but a response was not given. Later we found that Ibrahim was making dua for the ummah, that is suffering and making dua for Mohammed as he has clearly lost it.

5.4 Proof

To the right and below.





6. Meeting

6.1 Present

- Nathan Le Roux
- Joshua Weppelman
- Dewald Smal
- Ibrahim Vorajee
- Justin Perumal
- Mohammed Gori

6.2 Date and Location

Date: 04th of May 2025 at around 05:00pm

Meeting took place on WhatsApp.

6.3 Brief Discussion

The meeting on covered several key topics This meeting was a general checkup on how everyone was doing. Dewald achieved 64% code coverage, which Mohammed commented Awesome and Jousha Sweet. Nathan said he was not present. And was noted.

6.4 Proof

To the right.

