



SportsHub

Community Sports Facility Management System

Sprint 4

Sprint Review - 05/05/25

-Present

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

-Date and Location

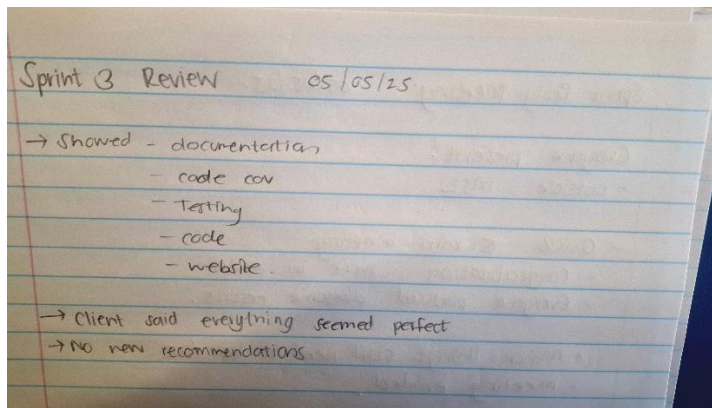
Date: 05 May 2025 at around 14:30

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 is using Codecov. Integration with GitHub is ongoing.

-Proof



Sprint Retrospective - 05/05/25

-Present

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

-Date and Location

Date: 05 May 2025 at around 15:00

Meeting took place in person in inside MSB.

-Brief Description

Focus: Issue reporting, feedback system, Weather integration, UI refinement, design reviews.

✓ What Went Well (Continue):

- Reporting interface was simple and user-friendly.
- Staff tools to resolve and track issues were highly effective.
- Weather API integrated smoothly and added real user value.
- Reusable UI components improved maintainability.

⚠ What Didn't Go Well (Stop):

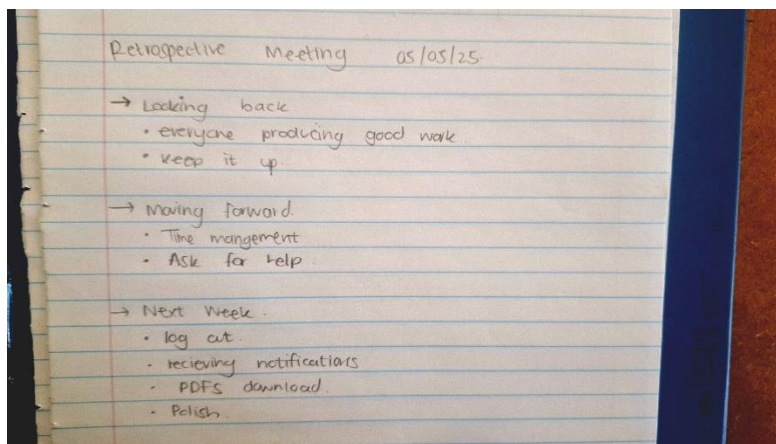
- Some edge cases for feedback validation weren't handled.
- Team had limited time for thorough testing due to backlog creep.
- Stakeholder review sessions were delayed, reducing iteration time.

- Design feedback came too late to act on all suggestions.

💡 Improvements (Start):

- Add automated tests for feedback submission forms.
 - Conduct earlier QA passes in the sprint cycle.
 - Schedule stakeholder demos earlier in the sprint.
 - Allocate buffer time for final design polish.
-

-Proof



Who did what?

- Nathan Le Roux – Issue Page Improvements
- Joshua Weppelman – Back-End + API stuff
- Dewald Smal – Tests & Code Coverage 80%
- Ibrahim Vorajee – UML Diagrams & Main Page Functionality + Events
- Justin Perumal – Booking Improvements
- Mohammed Gori – GUI Improvements + Fix Facility Page & Compiled all Sprint Documentation

Notion

SD-Project									
Update UML Diagrams	OPEN	Done	Ibrahim Vorajee	05/04/2025	High				
Issues pdf	OPEN	Done	Nathan Le Roux	05/19/2025	Medium	Feature request	Issues pdf downloadable		
Usage trends	OPEN	Done	Justin	05/19/2025	Medium	Feature request	Show usage trends and download as pdf	Medium	
Update User table	OPEN	Done	Nathan Le Roux	05/19/2025	Medium	Front-End	Include names of users along side role an		
Back-End Update	OPEN	Done	Joshua Weppelm	05/19/2025	High	setup	Back-End development continued		
Code Coverage 80%	OPEN	Done	Dewald Smal	05/19/2025	High	Feature request	Get up to 80%		
UML Diagrams Update	OPEN	Done	Ibrahim Vorajee	05/19/2025	High				
Events	OPEN	Done	Ibrahim Vorajee	05/19/2025	High	Front-End	Creating Events Page		
Admin Booking	OPEN	Done	Justin	05/19/2025	Medium	Feature request	Creating Admin Booking		
Sprint 4 Docs	OPEN	Done	Mohammed Gori	05/19/2025	High				
Css improvements	OPEN	Done	Mohammed Gori	05/19/2025	Low	Polish	Makin sure everything looks awesome		
GUI Improvements	OPEN	Done	Mohammed Gori	05/19/2025	Medium	Polish			
+ New task									
Calculate		Calculate		Calculate		Calculate		Calculate	

User Stories

Identifier	User Story
US 1	As a user, I want to log off from the system, So that I can securely end my session.
US 2	As a user, I want to access usage trends by facility, So that I can understand how frequently each facility is used.
US 3	As a user, I want to view maintenance reports showing open vs. closed issues, So that I can monitor the maintenance status of the facilities.
US 4	As a user, I want to reserve sports facilities for specific time slots, So that I can ensure availability when I need them.
US 5	As a user, I want to receive notifications about my bookings, So that I can stay informed about my reservation status, reminders, or any changes.
US 6	As an admin user, I want to approve or disapprove bookings, So that I can manage facility usage and ensure appropriate access.

User Acceptance Tests (UATs)

US 1 – User Logoff

Given I am logged into the system
When I click the "Log Off" button
Then I should be logged out and redirected to the login page.

US 2 – View Usage Trends by Facility

Given I am logged in as admin and on the dashboard
When I navigate to the "Analytics" section
Then I should see usage statistics categorized by facility.

US 3 – Access Maintenance Reports

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 and I am able to download a pdf of the maintenance requests.

US 4 – Book Sports Facilities

Given I am on the booking page
When I select a facility and an available time slot,
Then I should be able to confirm the booking and see a confirmation message.

US 5 – Receive Booking Notifications

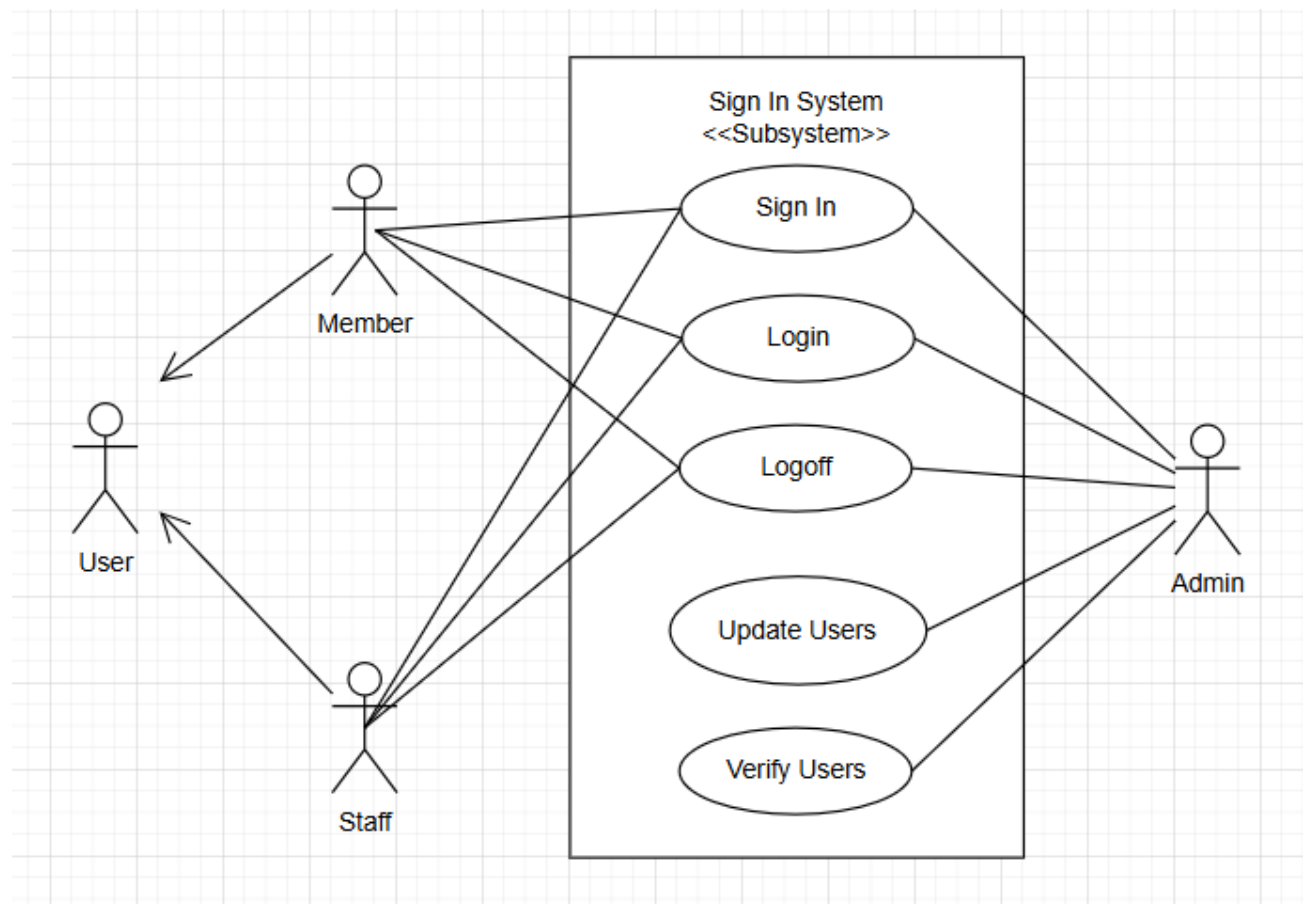
Given I have made a booking,
When the booking is confirmed, modified, or approaching,
Then I should receive a notification via my email.

US 6 – Approving a booking

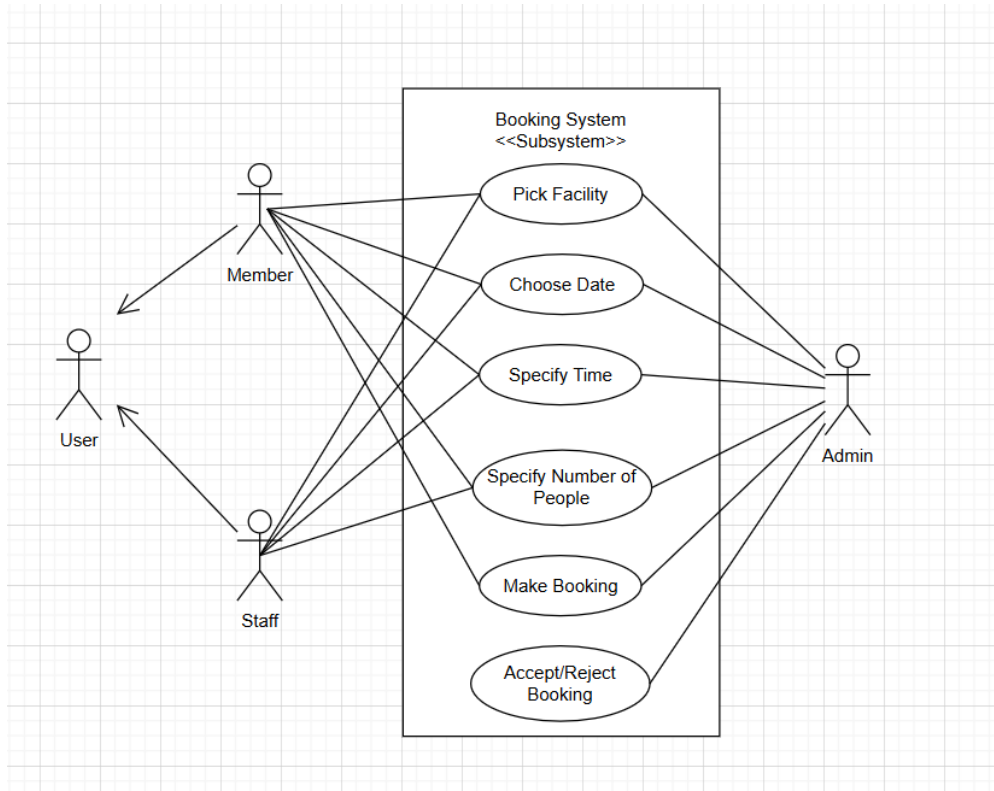
Given I am logged in as an admin and viewing pending booking requests,
When I click "Approve" and "Disprove" on a booking request
Then the booking status should change to "Approved" and "Disapproved", and the user should receive a notification.

UML Diagrams

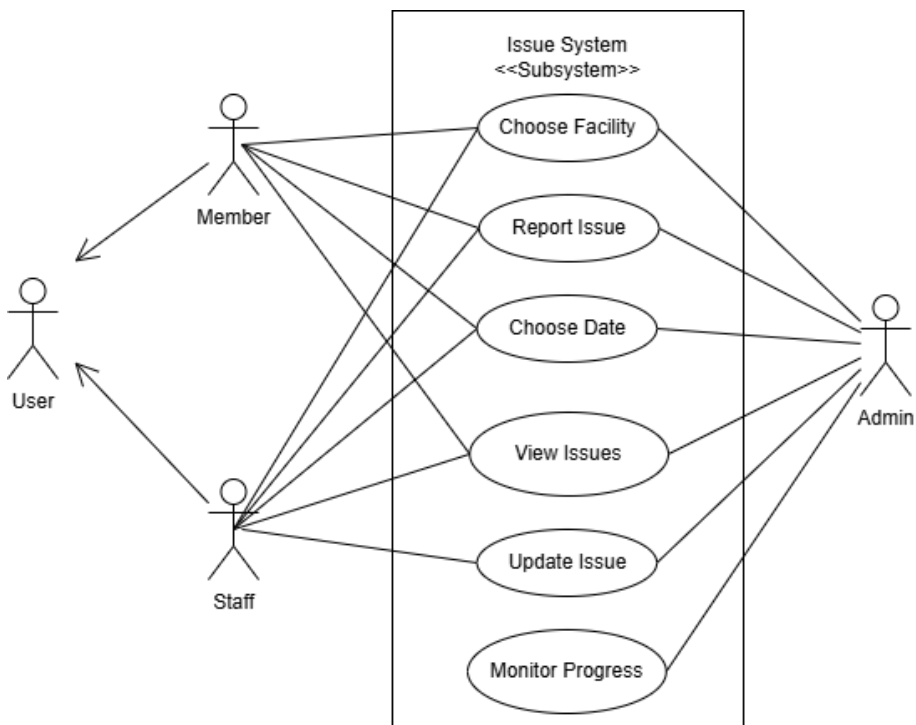
Use Case Diagram (Sign in)



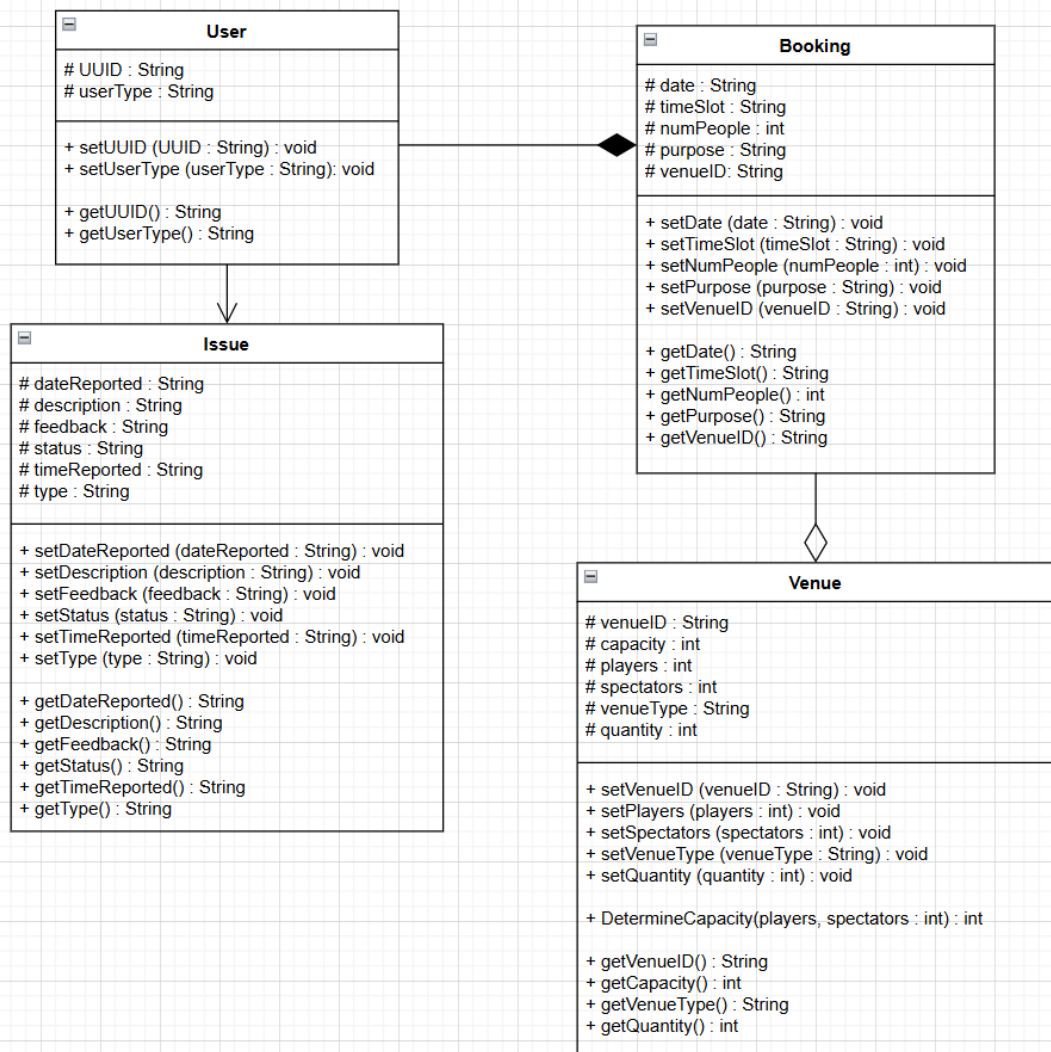
Use Case Diagram (Booking)



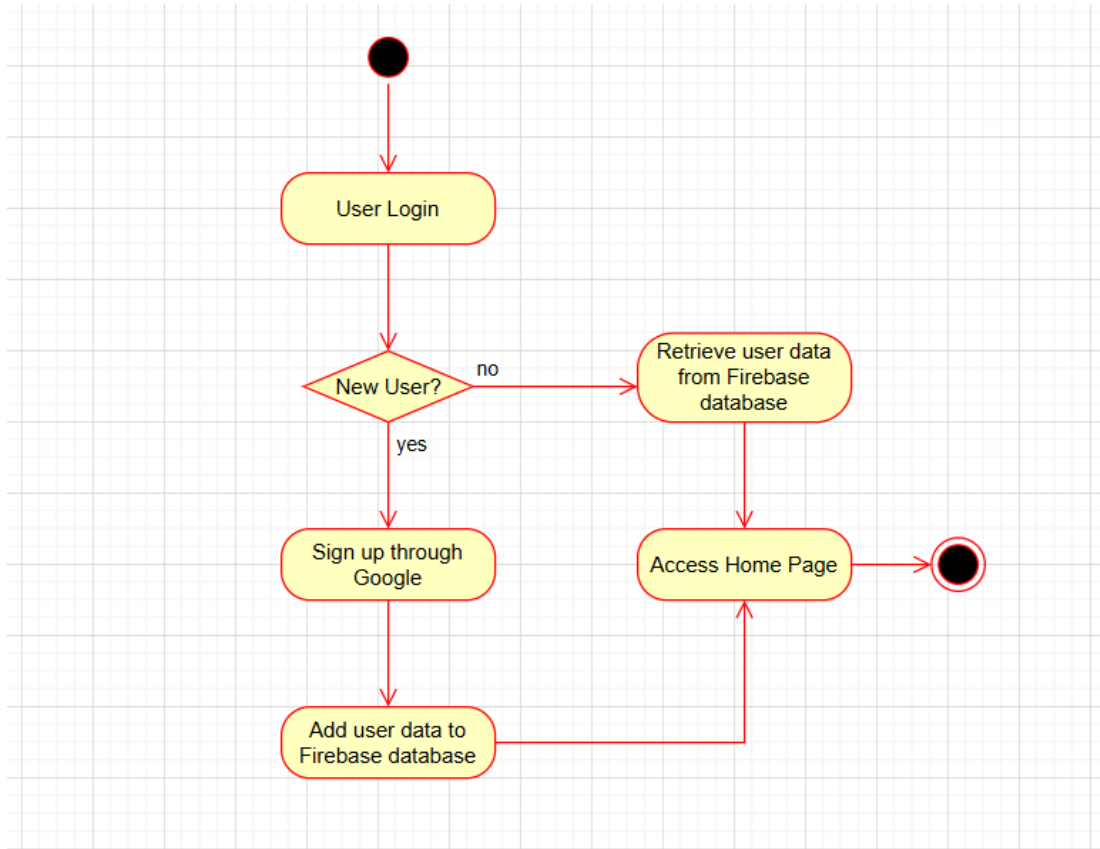
Use Case Diagram (Issues)



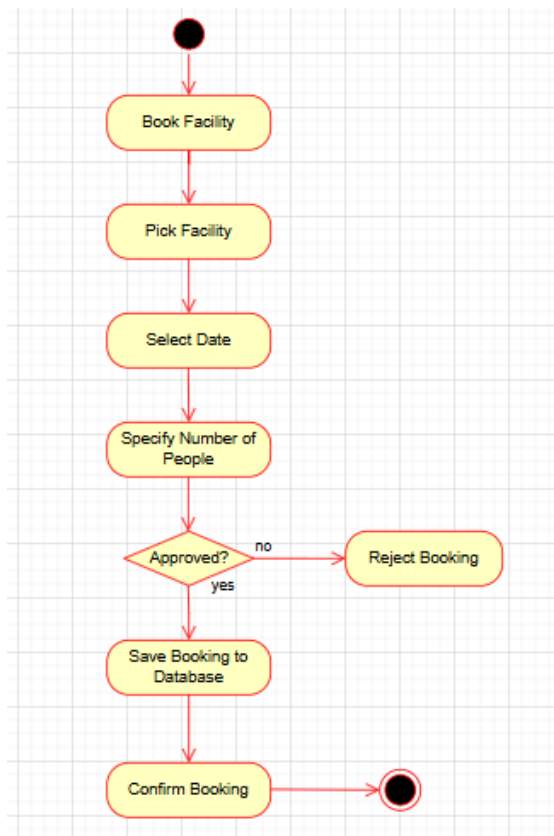
Class Diagram



Activity Diagram (Sign in)

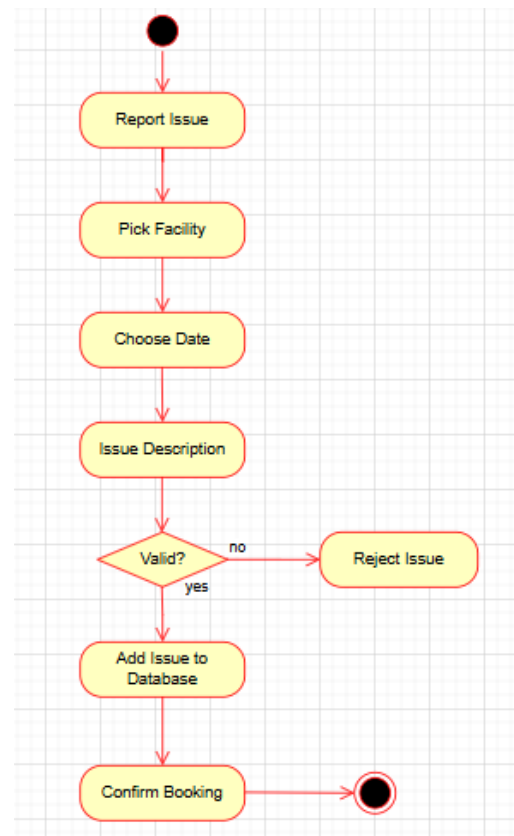


Activity Diagram (Bookings)

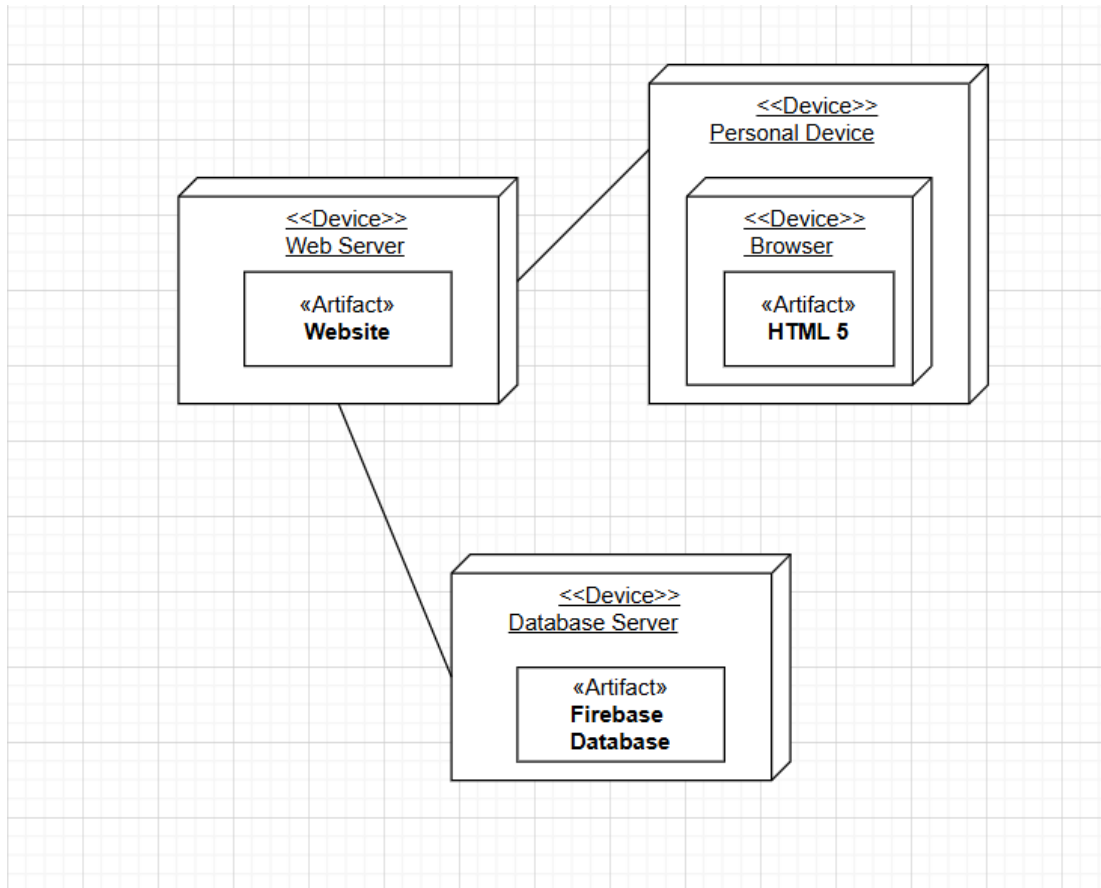


(Issues)

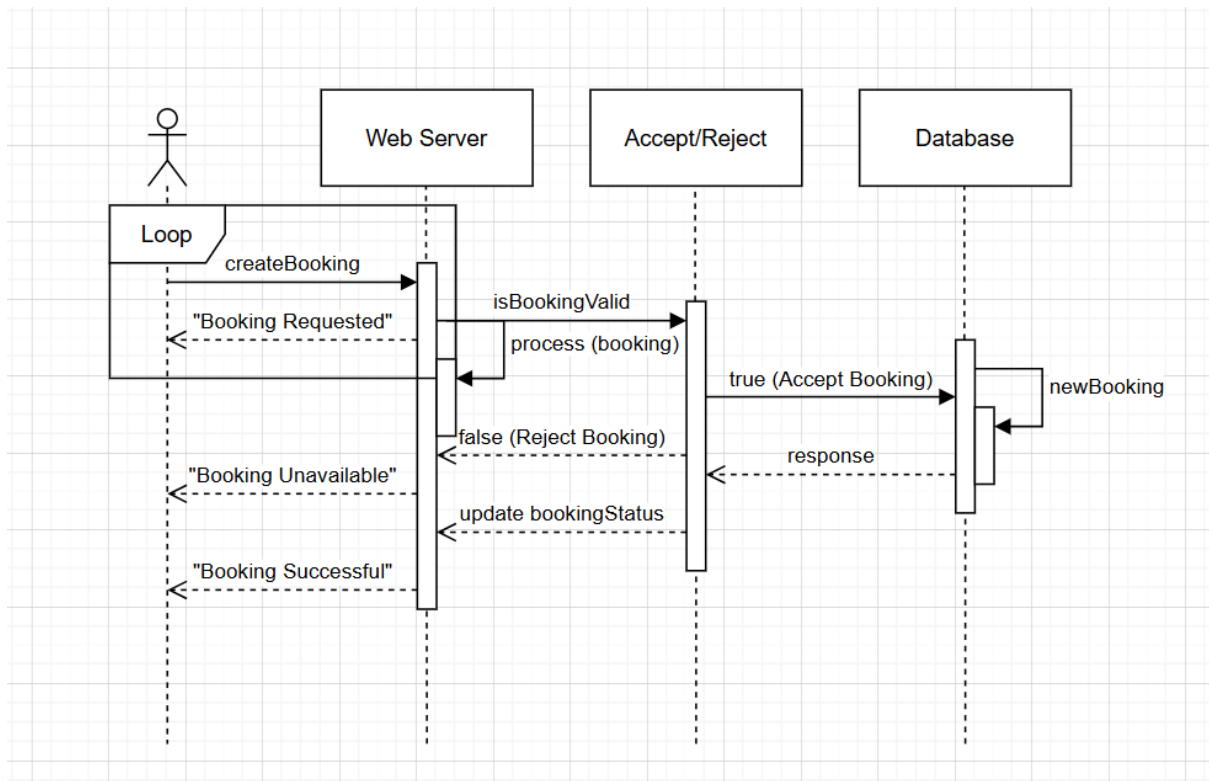
Activity Diagram



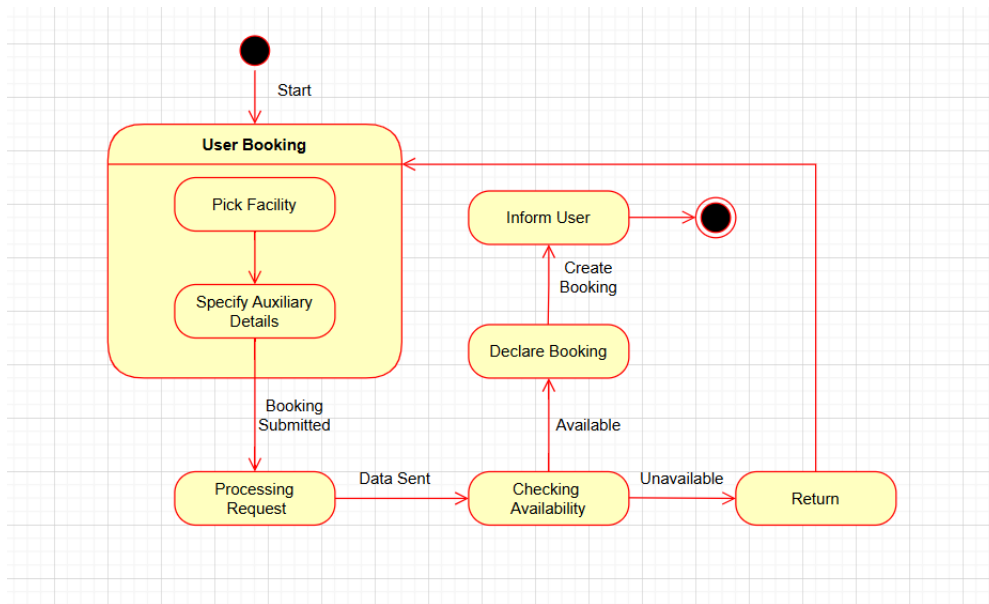
Deployment Diagram



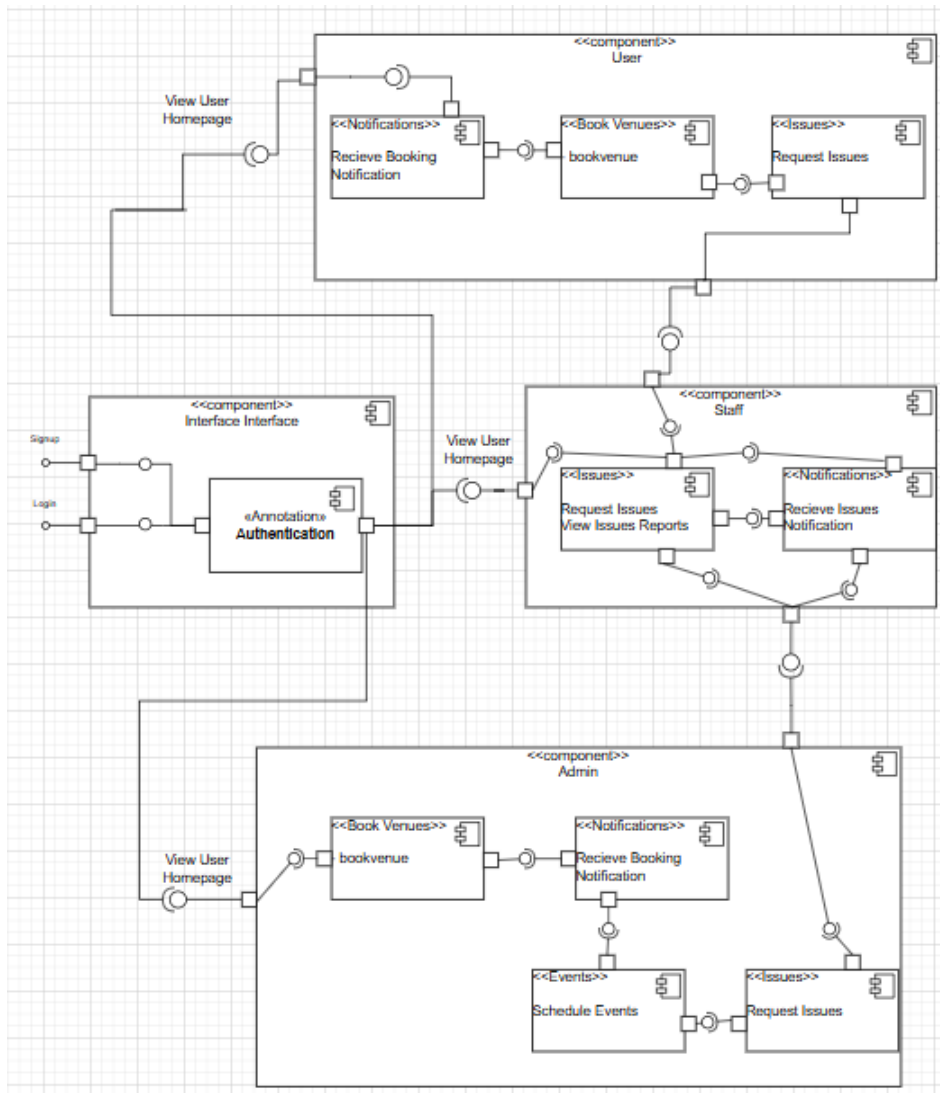
Sequence Diagram



State Diagram



Component Diagram



Meetings

1. Meeting

1.1 Present

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

1.2 Date and Location

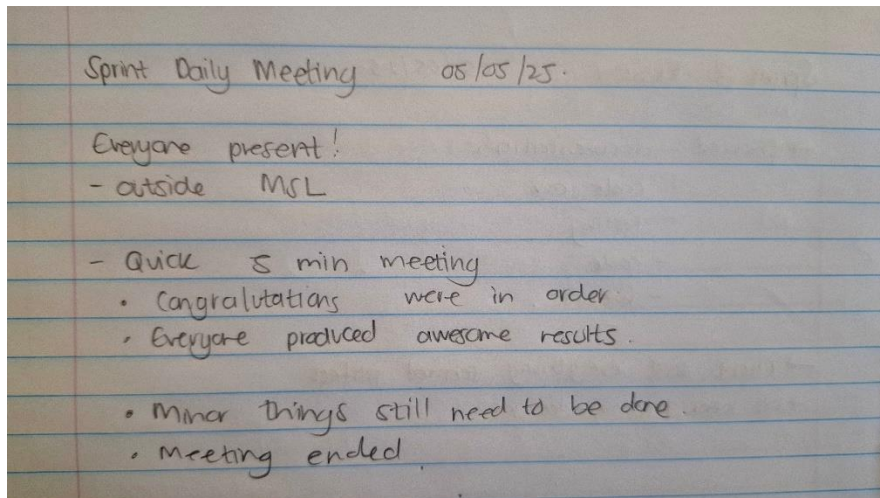
Date: 05 May 2025 at around 15:15

Meeting took place in person in outside MSL

1.3 Brief Discussion

This meeting was a brief discussion. 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: 07 May 2025 at around 16:00

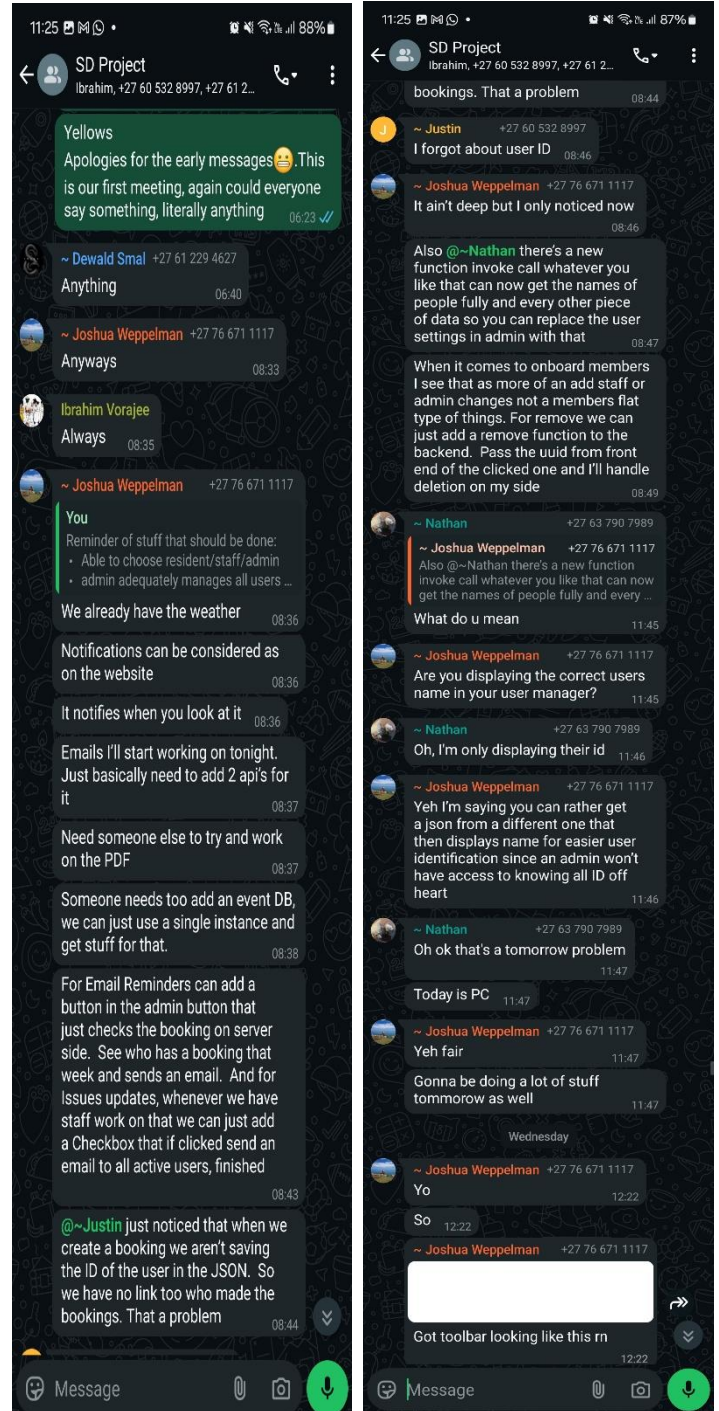
Meeting took place in person in CLM library Discussion Room 3

2.3 Brief Discussion

Progress was made on issue reporting and ticket management. The issue reporting form fields have been finalized, ensuring a structured way for users to submit concerns. Work has begun on the staff view for ticket management, allowing administrators to oversee and handle reported issues efficiently. However, confusion has arisen regarding the definitions of the status fields, which needs to be clarified to ensure consistency in issue tracking. The next steps will focus on resolving this ambiguity and refining the ticket management workflow.

2.4 Proof

To the right



3. Meeting

3.1 Present

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

3.2 Date and Location

Date: 09 May 2025 at around 17:05 and ended at 17:51

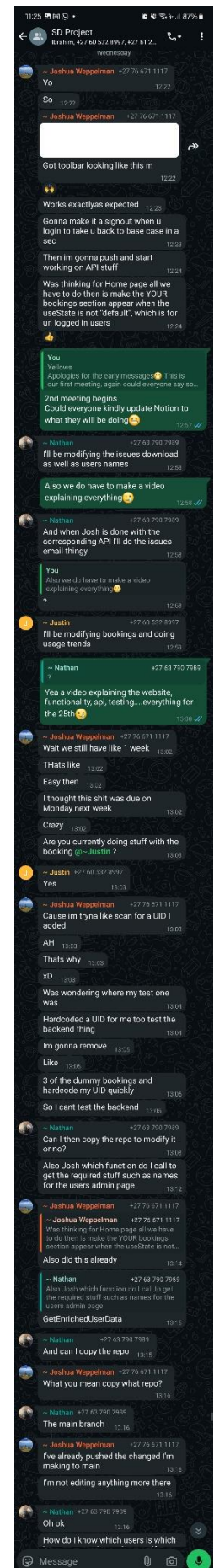
Meeting took place on WhatsApp

3.3 Brief Discussion

Key functionality updates were made. The issue types of filter has been successfully implemented, allowing users to refine and categorize reported concerns efficiently. Additionally, the feedback form has been connected to bookings, enabling a streamlined process for users to provide input on their experiences. However, a challenge has surfaced—backend validation is failing on optional fields, causing unexpected errors. The next steps will focus on debugging the validation process to ensure flexibility for optional entries while maintaining data integrity.

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: 13th May 2025 at around 17:00

Meeting took place on WhatsApp.

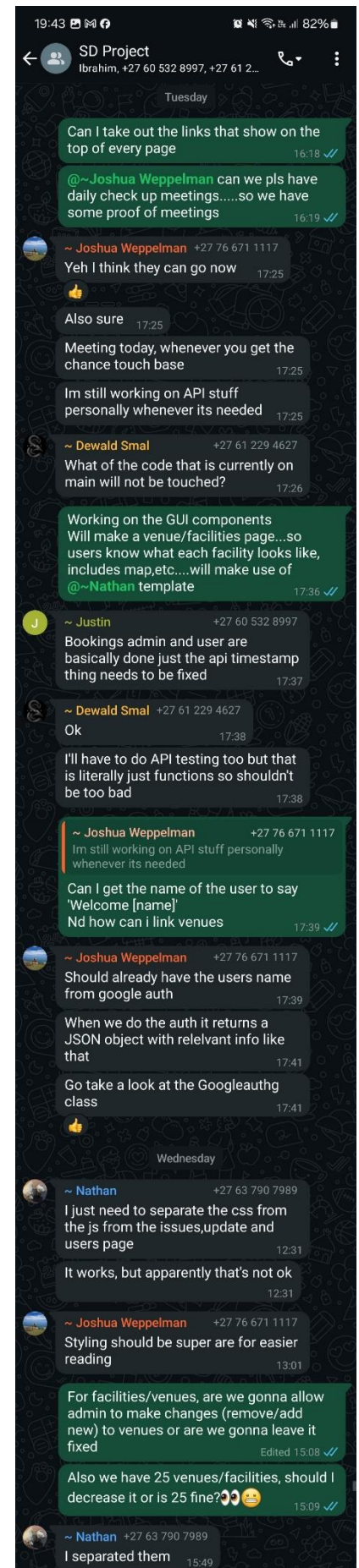
4.3 Brief Discussion

The meeting began with a general check-in; we made significant strides in issue tracking and resolution management. Staff can now update issue statuses, transitioning tickets through Pending → In Progress → Resolved, which enhances workflow efficiency. Testing has also begun on form resubmission errors to ensure a smooth user experience when submitting updates. However, a blocker has been identified—the comment field is not saving properly, leading to inconsistencies in logged issue details. The next steps will focus on debugging this issue to ensure comments are retained correctly.

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: 15th of May 2025 at around 05:00pm

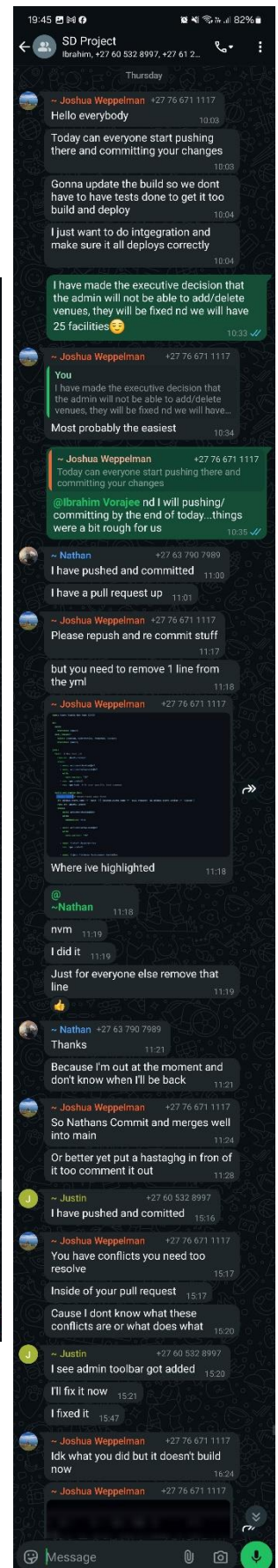
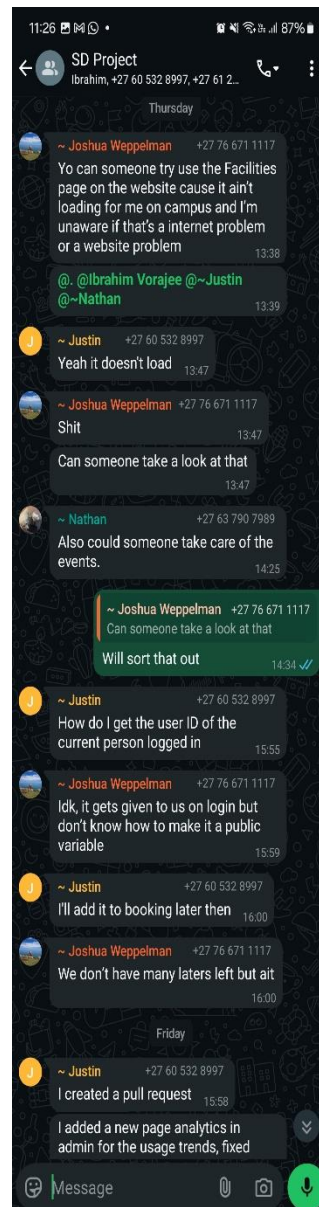
Meeting took place on WhatsApp.

5.3 Brief Discussion

We addressed critical improvements in issue tracking and feedback management. A bug affecting the issue tracking UI has been successfully resolved, ensuring smoother interactions for staff handling reported cases. Feedback ratings are now being stored successfully in Firestore, streamlining data collection and enhancing user engagement insights. Additionally, minor conflicts in the merge have been resolved, allowing for a cleaner and more stable codebase moving forward. The next steps will focus on further refining functionality and ensuring seamless integration. Great job, team.

5.4 Proof

To the right



6. Meeting

6.1 Present

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

6.2 Date and Location

Date: 18 of May 2025 at around 05:00pm

Meeting took place on WhatsApp.

6.3 Brief Discussion

We received positive results from regression testing, with an overall green status, indicating system stability. The QA team has thoroughly reviewed the maintenance flow to ensure smooth operations and identify any potential gaps.

Additionally, the feedback feature has been polished and is now demo-ready, providing an improved user experience.

The next steps will focus on final refinements and preparing for wider testing and deployment.

6.4 Proof

To the right.

