SportsHub

Community Sports Facility Management System

Sprint 1

Who did what?

- Nathan Le Roux – Created Issue Page
- Joshua Weppelman – Created Signup page
- Dewald Smal -Created Login page
- Ibrahim Vorajee – Created Home page
- Justin Perumal -Created Bookings page
- Mohammed Gori – Made Css files for the html, Compiled all Sprint Documentation

Backlog Refinement

🔧 Initial Project Setup

1. **Initialize Git & GitHub repository**
   - Configure remote repository
   - Establish branch naming conventions (e.g., feature/, bugfix/)
2. **Set up Notion for task management**
   - Create team workspace
   - Set up Kanban board for backlog, sprint planning, and issue tracking
3. **Define core technologies for the project**
   - **Frontend:** HTML, JavaScript, TailwindCSS, React.js
   - **Database:** Firebase Firestore
4. **Configure the development environment**
   - Set up Firebase project
   - Initialize Firebase services (Auth, Firestore, Functions)
   - Configure GitHub Actions for CI/CD

👤 User Management

5. **Implement user login functionality**
   - Google OAuth login
   - Setup user authentication with Firebase Auth
6. **Develop new user registration form**
   - Fields: First Name, Last Name, Username, Email, Phone Number, Date of Birth
7. **Create user roles and access control**
   - Roles: Resident, Facility Staff, Admin
   - Restrict feature access based on roles

🏠 User Interface & Navigation

8. **Design and build landing/home page (post-login)**
   - Show overview of available facilities
   - Display user role-specific actions
9. **Implement global site navigation**
   - Navigation bar and responsive layout
   - Access to booking, reports, and user settings

🏛 Facility Management Features

10. **Enable facility search functionality**
    - Filter by facility type, availability, or rating
11. **Implement booking system**
    - Residents can reserve available time slots
    - View and cancel existing bookings
12. **Admin controls for booking approval/blocking**
    - Review, approve, or reject incoming reservations
13. **Add rating and feedback system for facilities**
    - 5-star rating with optional comments after use

⚒ Maintenance & Issue Reporting

14. **Allow users to report facility issues**
    - Include facility name, issue type, and description
15. **Enable facility staff to manage reported issues**
    - Update issue status: pending, in progress, resolved
    - Provide feedback notes on resolution

🐗 Notifications & Extras

16. **Display weather updates for outdoor facilities**
    - Use public weather API
    - Notify users of adverse conditions affecting bookings
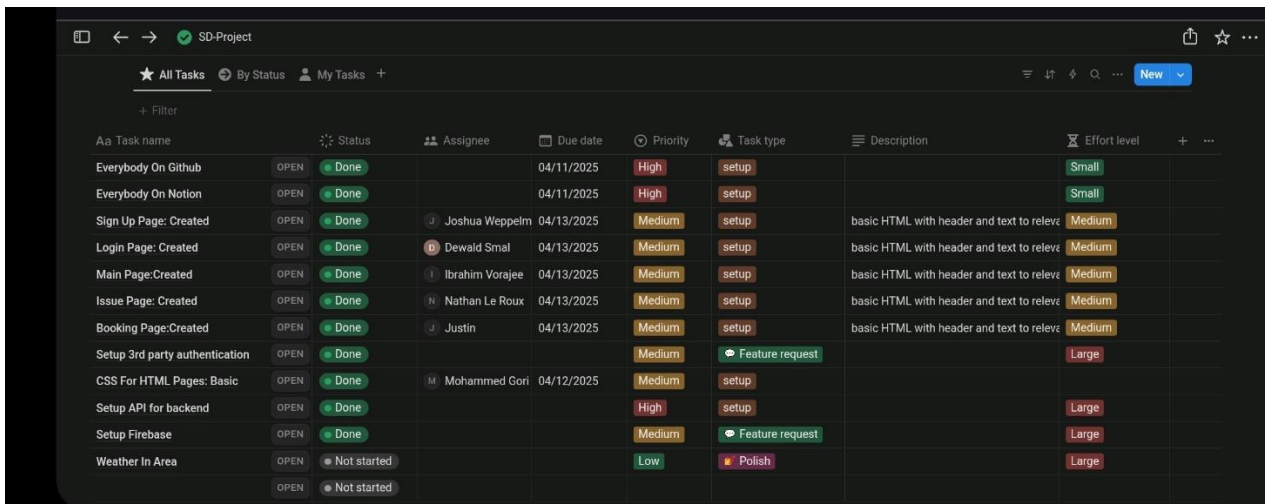

🎨 Design & Usability

17. **Develop UI components**
    - Ensure mobile-first responsiveness
    - Consistent styling across user roles
18. **Run regular UI/UX review sessions with stakeholders**
    - Gather feedback and iterate on mockups and wireframes

Notion

Aa Task name	Status	Assignee	Due date	Priority	Task type	Description	Effort level
Everybody On Github	OPEN ● Done		04/11/2025	High	setup		Small
Everybody On Notion	OPEN ● Done		04/11/2025	High	setup		Small
Sign Up Page: Created	OPEN ● Done	J Joshua Weppelm	04/13/2025	Medium	setup	basic HTML with header and text to releva	Medium
Login Page: Created	OPEN ● Done	D Dewald Smal	04/13/2025	Medium	setup	basic HTML with header and text to releva	Medium
Main Page:Created	OPEN ● Done	I Ibrahim Vorajee	04/13/2025	Medium	setup	basic HTML with header and text to releva	Medium
Issue Page: Created	OPEN ● Done	N Nathan Le Roux	04/13/2025	Medium	setup	basic HTML with header and text to releva	Medium
Booking Page:Created	OPEN ● Done	J Justin	04/13/2025	Medium	setup	basic HTML with header and text to releva	Medium
Setup 3rd party authentication	OPEN ● Done			Medium	💬 Feature request		Large
CSS For HTML Pages: Basic	OPEN ● Done	M Mohammed Gori	04/12/2025	Medium	setup		
Setup API for backend	OPEN ● Done			High	setup		Large
Setup Firebase	OPEN ● Done			Medium	💬 Feature request		Large
Weather In Area	OPEN ● Not started			Low	🎨 Polish		Large
	OPEN ● Not started						

User Stories

Identifier	User Story
US 1	As a user, I want to sign up using my Google account so that I can quickly register without creating a new password.
US 2	As a user, I want to log in with my Google account so that I can securely access my account.
US 3	As a user, I want to navigate through the main dashboard easily so that I can access bookings, events, and issues quickly.
US 4	As a user, I want to reserve sports facilities for specific time slots so that I can use the facilities at a convenient time.
US 5	As a user, I want to report issues with the facilities so that maintenance staff can resolve them promptly.
US 6	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 – Sign up with Google

Given I am a new user on the website
When I click on "Sign in with Google"
Then I should be redirected to Google for authentication and upon success, my account should be created in the system.

US 2 – Login with Google

Given I already have an account linked with my Google account
When I click on "Sign in with Google"
Then I should be logged in and redirected to the dashboard.

US 3 – Navigate Main Dashboard

Given I am logged in
When I click on sections like "Booking" or " Issues"from the main navigation
Then I should be taken to the respective page without errors or delays.

US 4 – Book a Facility

Given I am a logged-in user
When I select a facility and choose a time slot
And I click "Book"
Then a booking request should be sent

US 5 – Report Facility Issues

Given I am a logged-in user
When I navigate to the issues section
And I submit a description of the issue
Then the issue should be recorded.

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: 7 April 2025 at around 14:30

Meeting took place in person in outside MSB with client.

1.3 Brief Discussion

This meeting was an introductory meeting with the client. The client informed the team of what was required, user stories, deadlines and basic guidelines that was expected. This meeting further covered several key areas for the project. The team discussed using GitHub Projects and Notion for organization, tracking user stories and ongoing GitHub. Requirements were outlined, emphasizing clarity, single-page documentation, and defined user roles. The UI needs justification for every choice, and meeting minutes require proof and timely completion of tasks. Finally, the team agreed to document individual roles and the project's progress, including what's being done, what's needed, testing, and completed items.

1.4 Proof

SD Grp 47

Sports Facility   Everyone was present!

1st Meeting

- Use GitHub Projects / Notion
- Story by Monday → user-story
- github deployed
- site azure deployed

- requirements
  - not everything on 1 page.
  - very clear roles
    → very specific what admin/user/etc. must do

- UI
  → choice have good reason for everything

- Minutes
- Proof of meeting
- get everything done as early as possible.

- Our roles → what each person is doing what.

- a document stating; what we doing
                    what needs to be done
                    testing
                    what is done

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: 7 April 2025 at around 15:00

Meeting took place in person in WSS Tutorial room.

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. The functionality of the Bookings and Issues pages was also reviewed. As a potential bonus feature, the implementation of weather information was considered. The team set a goal of completing five user stories by the next sprint, alongside ongoing GitHub/Azure release deployment and code coverage management. Additionally, the meeting covered setting up GitHub and Notion for project tracking and task assignment. The team also discussed user verification via Google, defined various roles, and established processes for reports and uploads. UI considerations included ensuring an accessible main menu and a consistent visual design. Action items for the end of the week include the completion of four user stories, as well as the development of buttons for the main page, a sign-up page, and a login page.

2.4 Proof

Left page:

- Scrum methodology — proof of meetings
- requirement engineering
- 3 user-story → we do 5 use stories
- Github / Azure website deployment
- Code coverage
- git Notion setup
- Github — pushing on main — most working thing
  - need to push branch — adding new feature kind of copy of main
  - don't affect what another person is doing

By end week
- UI → 3
- button on html send to another page
- Login page
- sign page

Right page:

2ND MEETING   Everyone Present

- Looking at document

figure this out have 2 separate htmls

- user verification
  - using google
  - in apps account   → poor lucky

how different people access stuff

how resident knows about admin stuff

- roles
- resident / member
  - reviews
  - reports issues
  - improvements
  - maintenance → open / closed

- staff — report
  - update maintenance/status stuff → open / servicing pages
- admin
  - manage everything.

- Booking systems.
  - specific facility eg golf time & date booked

- UI
- from Main Page

- Getting website done for bonus / being ahead
  - need for 1 area.

website Name

will discuss later

- register a facility so 1 facility

- Be able to download pdf from website.
  - has table with st Name.
  - info about everything
  - figure out how to expand
- Ask what custom view is?
  - expected
- usage trends every

- Make basic html no details later

3. Meeting

3.1 Present

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

3.2 Date and Location

Date: 9 April 2025 at around 17:05 and ended at 17:51

Meeting took place on WhatsApp

3.3 Brief Discussion

The team discussed contributions, project naming, task allocation, and next steps. After confirming no major contributions had been made, Josh introduced a GitHub repository, a Notion page, and the need for a project name. Various names were proposed, and "SportsHub" was selected with taking the name "Finesse Sporting Facilitation (FSF)", into consideration. Tasks for the sprint were outlined, including creating basic webpage interfaces and connecting them to an API and a Firebase database. Specific roles were assigned: Josh on the signup page, Dewald on login, Justin on booking, Nathan on the issues page, and Ibrahim on the main page, with Mohammed expected to cover the remaining tasks. The importance of working in branches and organizing files in the repository was emphasized. The team agreed to clone the repository and prepare for the next meeting on April 11, with a potential voice call on April 12. Josh planned to deploy a simple website that evening.

3.4 Proof

Meeting started: 17:05 09 April 2025

Josh proposed the question: has anyone contributed to the project yet

Dewald responded with: other than figuring out basic stuff, no

Nathan also responded with: no

Justin responded with: no

Josh asked Ibrahim if he has made any contributions

Ibrahim misunderstood and responded that the missing member hadn't responded

Josh asked why he was referring to himself in 3rd person

Josh asked again if Ibrahim has contributed yet

Josh then stated that we aren't going to cover any intensive topics today, and see where this meeting takes us

Ibrahim clarified that he misunderstood, and that no he has not yet contributed either

Josh stated that he set up a GitHub repository and created a notion page as well as almost linked us to azure

Josh then stated that we need to name our project as our website needs a domain name

Josh then asked all present members for domain name ideas

Dewald stated that he cannot find a notion invite

Ibrahim proposed the name Finesse Sporting Facilitation or FSF

Josh proposed BookMyCourt or BMC

Ibrahim acknowledged and liked Josh's proposed name

Josh proposed more names: Courtly, FacilityPro, FieldBooker

Ibrahim wondered if the type of grounds should be general since it might be a court or a field, etc

Ibrahim liked the name FacilityPro

All present members tried to vote on a name: The result was inconclusive

Josh stated that Finesse Sporting Facilitation is too cumbersome a name

Dewald agreed

Josh proposed the names OpenSlot, SportsBooker

Josh stated that the name could later be changed

Nathan proposed the name SportsHub

Josh liked that name

Ibrahim liked the name but stated that it did not give off the feel of a booking system

Justin proposed the name quickserve

Josh responded that it was biased towards tennis and that this system is for multiple sports

Decision was reached and SportsHub was picked

Josh then stated that the next matter for consideration is the work to be completed by next Sprint meeting such as a basic website with buttons to swap between relevant pages

Ibrahim then agreed with Josh's statement

Josh stated that he thought of taking on the signup page and that he has put forth on notion all webpages that need to be completed such as login, main, booking as well as issues

Ibrahim stated that he would take on the main page

Josh stated that the leftover work will go to Mohammed as he was not present

Dewald stated that he would be needed to be told

Ibrahim stated that he should just get the bulk of the work

Josh stated that Mohammed should just look at the chat

Dewald stated that he would do the login page

Justin stated that he would do the booking page

Dewald then stated that login is slightly less than sign up but that he and josh would later need to collaborate on design to make them appear similar

Josh stated that for next week we should have basic webpages setup so that we can move from page-to-page next week, also that he will begin work on an API to connect to Firebase

Josh then summarized that we currently have 3 goals: A interface webpage that connects to an API that in turn connects to a database

Josh stated that we would require research on what manner of API, in order to find the one that works the easiest with Firebase

Dewald agreed with Josh

Josh stated that as of right now we have 2 things to do: The CSS files as well as the issues page

Josh asked Nathan what he would prefer to do

Josh then stated that he is combining the CSS into a one person job since it would be the same file across the board and that it will be just a matter of setting and attaching it once the HTML pages are done

Nathan then responded to Josh's earlier question, that he would take on the issues page

Josh then asked if there was anything anyone else wanted to add

Josh then stated that when downloading the repository there will be a file for main UI, and that we must make a new separate folder for each of our individual UI, and that from the start we should work in our own branch when attempting something

Josh then proposed the idea of a voice call on April 12 over discord

Ibrahim thanked Josh for his advice and agreed with his idea

Josh stated that the next meeting will be on 11 April over whatsapp, and that by then everyone should try to clone the repository

Josh then stated that he has made a simple website and that he would try deploy it later that same night

Meeting end 17:51 09 April 2025

4. Meeting

4.1 Present

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

4.2 Date and Location

Date: 11 April 2025 at around 08:00pm

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 suggested exploring Tailwind as a website template, which the team agreed to consider. While Justin expressed interest in working on weather implementation, the team prioritized focusing on core requirements first. A quick review of the current website yielded a positive but temporary assessment, and Josh reiterated the agenda for the next meeting before the session concluded.

4.4 Proof

Josh asked how everyone was feeling

Nathan responded that he just submitted

his issues.js file

Mohammed responded that he is confident after Josh explained stuff.

Josh said the next meeting will be on designing UI elements and how the website should look like

Josh added on getting a basic wireframe, and he mentioned he has a database and API setup and will go through them the next day

Nathan asked what was meant link and rebase

Josh explained to Nathan what it was

Mohammed asked about the database chosen

Josh and Nathan explained why

Firebase was chosen as a database

Josh asked where Dewald and Justin is

(Ibrahim sent his apologies as he could not attend)

Dewald did not respond

Justin was in the bathroom

Mohammed suggested that the group use Tailwind as a website template

The team agreed to look into it

Justin asked if he could work on the weather

The team suggested that they should focus on what was required first before looking at the weather

Josh asked if anyone saw the website

The team said the website looked fine, for now

Josh re-iterated what was to be discussed in the next meeting

Meeting ended

5. Meeting

5.1 Present

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

5.2 Date and Location

Date: 12 April 2025 at around 03:00pm

Meeting took place on Discord.

5.3 Brief Discussion

The meeting on April 12th, 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.

5.4 Proof

12 April Meeting.   Everyone
~~GitHub Actions~~   Present
Branches — made yay!   Start Time: 15:00
                                            End Time: 16:28.
Added basic css. file.

How to deploy to Azure?
~~do~~ wireframe. in person. on Monday.

Firebase
 — Authentication
 — user data. ⟶ stored on database.

 — admin see all users.

 — no SQL
        ↳ stores json

Joshua   Explains ~~Sign up~~ /Login.
         Explain React.

 — move files conviently /appropriately.

 ↳ .Explain API stuff
              ↳ using Firebase.

 How to use Firebase to
    store Admin / Staff / User.

 Using GitHub Actions. ⟶ Continuous integration

- Take screen shot about
    Database.

Issue	Status

- & user type!
- code coverge.
    Jest

- Documentation,

Note: taker.

4 mins of silence noted.