SportsHub

Backlog Refinement

Contents:

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1. General 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, 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**

- o Roles: Resident, Facility Staff, Admin
- o Restrict feature access based on roles

🏠 User Interface & Navigation

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

🏛 Facility Management Features

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

⚒ Maintenance & Issue Reporting

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

🐷 Notifications & Extras

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

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🎨 Design & Usability

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

Prioritized Backlogs

Items are grouped into **epics**, sequenced by **value to end users**, **technical dependencies**, and **development flow**. Priorities are labelled as:

- ☐ **High** (must-have / foundational)

- **Medium** (important / builds on core)
- ⬤ **Low** (enhancements / polish)

🔧 Initial Project Setup (High Priority)

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
3. **Define core technologies**
   - Frontend: HTML, JavaScript, TailwindCSS, React.js
   - Database: Firebase Firestore
4. **Configure development environment**
   - Set up Firebase project and services (Auth, Firestore, Functions)
   - Configure GitHub Actions for CI/CD

👤 User Management (High to Medium Priority)

5. **Implement user login**
   - Google OAuth login
   - Firebase Authentication
6. **Develop new user registration form**
   - Fields: Name, Username, Email, Phone, DOB
7. **Create user roles and access control**
   - Roles: Resident, Staff, Admin
   - Restrict access per role

🏠 User Interface & Navigation (High Priority)

8. **Build landing/home page (post-login)**
   - Display facilities overview and role-specific actions
9. **Implement global navigation**
   - Responsive nav bar with access to booking, reports, user settings

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🏢 Facility Management Features (Medium Priority)

10. **Enable facility search**

- o Filters: type, availability, rating
11. ☐ **Implement booking system**
    - o Users can reserve, view, cancel bookings
12. ☐ **Admin booking controls**
    - o Approve, reject, or block bookings
13. ◯ **Add rating and feedback system**
    - o 5-star rating + optional comments

⚒ Maintenance & Issue Reporting (☐ Medium Priority)

14. ☐ **Allow users to report facility issues**
    - o Facility name, issue type, description
15. ☐ **Staff issue management**
    - o Update issue status, add resolution notes

🐾 Notifications & Extras (◯ Low Priority)

16. ◯ **Display weather updates**
    - o Use public API to show weather
    - o Alert users about adverse conditions

🎨 Design & Usability (☐ Medium to ◯ Low Priority)

17. ☐ **Develop UI components**
    - o Mobile-first, consistent styling
18. ◯ **Run regular UI/UX review sessions**
    - o Stakeholder feedback and iteration

🔁 Sprint Sequencing

Sprint 1 (Setup & Auth): 1–4, 5, 6
Sprint 2 (Navigation & Roles): 7, 8, 9
Sprint 3 (Core Booking): 10, 11, 12
Sprint 4 (Maintenance & Feedback): 13, 14, 15
    (Notifications & Polish): 16, 17, 18

User stories of Backlogs

Each user story follows the format:

As a [user/role], I want to [do something], so that [I get value].

🔧 Initial Project Setup

1. Git & GitHub Repository

- **As a** developer,
  I want to initialize a GitHub repository and set branch naming conventions,
  So that our team can collaborate using consistent version control.

2. Task Management with Notion

- **As a** team member,
  I want to manage tasks using Notion with a Kanban board,
  So that we can track progress across sprints and backlogs.

3. Define Core Technologies

- **As a** developer,
  I want to define the core technologies for frontend and backend,
  So that we can align the tech stack and start development consistently.

4. Configure Development Environment

- **As a** developer,
  I want to set up Firebase and CI/CD with GitHub Actions,
  So that we can test and deploy changes efficiently.

🧑 User Management

5. User Login

- **As a** user,
  I want to log in using Google OAuth,
  So that I can securely access my account.

6. User Registration

- **As a** new user,
  I want to fill out a registration form,
  So that I can create an account with personal and contact details.

7. User Roles & Access Control

- **As an** admin,
  I want to define user roles (Resident, Staff, Admin),
  So that users see features relevant to their role.

🏠 User Interface & Navigation

8. Landing/Home Page

- **As a** logged-in user,
  I want to see a home page with facilities and quick actions,
  So that I can easily interact with the platform.

9. Global Navigation

- **As a** user,
  I want to use a navigation bar to access features,
  So that I can quickly move between pages and settings.

🏰 Facility Management Features

10. Facility Search

- **As a** user,
  I want to search for facilities using filters,
  So that I can find one that suits my preferences.

11. Booking System

- **As a** resident,
  I want to reserve facilities for specific time slots,
  So that I can plan my visits conveniently.

12. Admin Booking Controls

- **As an** admin,
  I want to approve or reject booking requests,
  So that I can manage fair access to facilities.

13. Rating & Feedback

- **As a** user,
  I want to rate and review facilities after use,
  So that others can benefit from my experience.

⚒ Maintenance & Issue Reporting

14. Report Facility Issues

- **As a** user,
  I want to report issues with facilities,
  So that staff can address them quickly.

15. Staff Issue Management

- **As** facility staff,
  I want to update the status of reported issues and add notes,
  So that users stay informed about progress.

🐾 Notifications & Extras

16. Weather Notifications

- **As a** user,
  I want to see weather updates for outdoor facilities,
  So that I can plan around adverse weather conditions.

🎨 Design & Usability

17. Reusable UI Components

- **As a** front-end developer,
  I want to build responsive, reusable UI components,
  So that the interface remains consistent across devices.

18. UI/UX Reviews

- **As a** product owner,
  I want to run regular design reviews with stakeholders,
  So that we gather feedback and improve usability.