

Wise & Wide

INTRODUCTION :

This document provides the complete documentation for our **AI-First Software Engineering** course project. It includes the project requirements, UML-based design, and optimization steps, along with all prompts and AI chat logs.

REQUIREMENTS ELICITATION :

- Prompt :

"according to this description :

Wise & Wide allows gym owners to manage classes, schedules, and user accounts smartly and securely. Members can browse classes, see gym hours, and receive reminders before their sessions, as well as see their subscription status.

and these features :

Add/edit/remove gym classes (e.g., Boxing, Yoga)

Define opening and closing hours

Manage user accounts (members/trainers)

Notifications for upcoming classes

can you give me 5 user stories with acceptance criteria , and 5 nonfunctional requirement and 3 suggested priority "

- output :

User Stories with Acceptance Criteria

1. As a gym owner, I want to add, edit, and remove gym classes so that I can keep the class list updated.

Acceptance Criteria:

- Owner can create a new class by entering its name, time, trainer, and duration.
 - Owner can edit class details and save changes.
 - Owner can delete a class, and it will no longer appear to members.
-

2. As a gym owner, I want to set and modify the gym's opening and closing hours so that members know when the gym is available.

✓ Acceptance Criteria:

- Owner can input daily opening and closing times.
 - Updated hours are reflected instantly on the member interface.
 - System prevents setting overlapping or invalid hours (e.g., closing before opening).
-

3. As a member, I want to view available classes and gym hours so that I can plan my visits easily.

✓ Acceptance Criteria:

- Member dashboard displays a list of upcoming classes with times and trainers.
 - Gym hours are visible and updated in real time.
 - Only currently available classes are shown.
-

4. As a member, I want to receive notifications before my scheduled classes so that I don't miss my sessions.

✓ Acceptance Criteria:

- Notifications are sent at a configurable time before each class (e.g., 30 min).
 - Members can enable/disable notifications in their settings.
 - Notification includes class name, time, and trainer.
-

5. As an admin, I want to manage user accounts (members/trainers) so that the system stays organized and secure.

✓ Acceptance Criteria:

- Admin can create, update, deactivate, or delete user accounts.
 - Passwords are securely stored and encrypted.
 - User roles (member, trainer, admin) are clearly defined and restricted.
-



Nonfunctional Requirements (NFRs)

1. **Performance:** The system should load class schedules within **2 seconds** of user request.
2. **Security:** All user data must be encrypted using **SSL/TLS** and stored securely in the database.
3. **Scalability:** The platform should support up to **10,000 concurrent users** without performance degradation.
4. **Availability:** The system should have **99.5% uptime** to ensure members can access schedules anytime.
5. **Usability:** The interface should be **mobile-friendly** and accessible on both web and mobile devices.

Suggested Priority Levels

Priority	Description	Example Features
High	Core functionality needed for MVP	Class management, user accounts
Medium	Enhances user experience	Notifications, gym hours display
Low	Additional polish or optimization	Advanced analytics, design themes