Project Title: Gym Advisor

Weekly meeting.

Date: March 10, 2025, 10:00

Software Requirement Specification (SRS) for Fitness Enthusiasts Hub

1. Introduction

1.1 Purpose

The purpose of this document is to define the functional and non-functional requirements for the Fitness Enthusiasts Hub. This platform will serve as a centralized space for fitness enthusiasts to access reliable fitness content, receive personalized workout programs, find gyms, and engage with a fitness-focused community.

1.2 Scope

- A web and mobile platform offering fitness articles, AI-driven workout recommendations, gym locators, and community forums.
- Users can create accounts, set fitness goals, track progress, and interact with other members.
- Integration with fitness brands and gym owners for exclusive offers and partnerships.
- Secure, scalable, and intuitive design ensuring a seamless user experience.

1.3 Definitions, Acronyms, and Abbreviations

- **AI: Artificial Intelligence**
- **CMS: Content Management System**
- **UI/UX: User Interface/User Experience**
- **API: Application Programming Interface**
- **SaaS: Software as a Service**

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2. Functional Requirements

2.1 User Authentication & Profiles

1. Users can create accounts via email, phone number, or third-party authentication (Google, Apple, Facebook).
2. Users can log in, reset passwords, and manage profile settings.
3. Users can set fitness goals (e.g., weight loss, muscle gain, endurance).
4. Users can track workout progress and update stats (e.g., weight, reps, calories burned).

2.2 Fitness Articles & Content Management

5. Users can browse fitness-related articles categorized by topic (nutrition, strength training, recovery, etc.).
6. Users can like, share, and save articles for later reading.
7. Admins can publish, edit, and remove fitness articles through a CMS.
8. Articles will include embedded videos, images, and expert opinions.

2.3 Personalized Workout Plans

9. Users can generate AI-driven workout plans based on fitness levels, goals, and available equipment.
10. Users can customize workout plans (change exercises, adjust intensity, add rest days).
11. The system can recommend alternative exercises based on user preferences or injuries.
12. Users receive weekly progress updates and suggested modifications to their plans.

2.4 Gym Locator & Partnerships

13. Users can search for nearby gyms based on location, pricing, and amenities.
14. Users can filter gyms by membership options (monthly, pay-per-use, trial sessions).
15. Gym owners can create business profiles, add services, and promote special offers.
16. Users can leave reviews and ratings for gyms.

2.5 Community & Social Features

17. Users can join community groups based on fitness interests (e.g., bodybuilding, yoga, CrossFit).
18. Users can post fitness updates, share progress photos, and write blog posts.

19. Users can comment on posts and upvote/downvote content.
20. Admins can moderate discussions, remove inappropriate content, and ban users.

2.6 Notifications & Alerts

21. Users receive notifications for new articles, workout reminders, and community activity.
22. Users can customize notification preferences (email, push notifications).

2.7 Payment & Subscription

23. Users can access free features or subscribe to premium plans for additional workouts and exclusive gym offers.
24. Payments can be made via credit card, PayPal, and in-app purchases.

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3. Non-Functional Requirements

3.1 Performance

25. The platform should load within 2 seconds on average for web and mobile.
26. The system should handle at least 10,000 concurrent users.

3.2 Scalability

27. The system should support an increasing number of users and gyms.

3.3 Security

28. User passwords should be encrypted using industry-standard encryption.
29. Two-factor authentication should be available for enhanced security.
30. All payment transactions must comply with PCI-DSS standards.

3.4 Usability

31. The UI should be intuitive and user-friendly for all demographics.
32. The mobile version should maintain full functionality with a responsive design.

3.5 Maintainability & Upgradability

33. The system should allow easy updates and feature enhancements without downtime.
34. The platform should use modular code for easier maintenance.

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4. I'll enhance your user stories by adding more depth and expanding them to cover additional aspects of your Fitness Enthusiasts Hub. Here are upgraded and additional user stories, bringing the total to 55:

Authentication & Profiles

1. As a user, I want to create an account using my email or social media.
2. As a user, I want to log in securely with my credentials.
3. As a user, I want to reset my password if I forget it.
4. As a user, I want to update my fitness goals in my profile.
5. As a user, I want to view my past workout history.
6. As a user, I want to set up two-factor authentication for additional security.
7. As a user, I want to customize my profile with a photo and bio.
8. As a user, I want to connect with friends who use the platform.
9. As a user, I want to set my fitness level (beginner, intermediate, advanced).
10. As a user, I want to input my physical metrics (height, weight, body measurements).

Fitness Articles & Content

11. As a user, I want to browse fitness articles based on categories.
12. As a user, I want to save articles to read later.
13. As a user, I want to share articles on social media.
14. As a user, I want to receive personalized article recommendations.
15. As a user, I want to filter articles by workout type or fitness goal.
16. As a user, I want to view video tutorials for different exercises.
17. As a content creator, I want to submit articles for publication.
18. As a fitness expert, I want to create certified content with a verified badge.

Workout Plans

19. As a user, I want to generate a workout plan based on my fitness goal.
20. As a user, I want to customize my workout plan.
21. As a user, I want to log my workouts and track progress.
22. As a user, I want to get AI recommendations for adjusting my workout plan.
23. As a user, I want to download my workout plan as a PDF.
24. As a user, I want to track calories burned during workouts.
25. As a user, I want to see animated demonstrations of exercises.
26. As a user, I want to substitute exercises based on available equipment.
27. As a user, I want to create custom workout routines from an exercise library.
28. As a user, I want to set up workout reminders on specific days and times.
29. As a user, I want to track my personal records for different exercises.

Gym Locator & Reviews

30. As a user, I want to search for gyms near me.
31. As a user, I want to filter gyms by membership options.
32. As a gym owner, I want to list my gym and add details about amenities.
33. As a user, I want to leave reviews and ratings for gyms I've visited.
34. As a user, I want to see photos of gym facilities before visiting.
35. As a user, I want to book a trial session at a gym through the platform.
36. As a gym owner, I want to respond to user reviews of my facility.
37. As a user, I want to see peak hours for gyms to plan my visits.

Community & Social Features

38. As a user, I want to join a fitness discussion group.
39. As a user, I want to create a post about my fitness progress.
40. As a user, I want to comment on posts.
41. As a user, I want to create and join fitness challenges.
42. As a user, I want to share my workout achievements with the community.

43. As a user, I want to follow other users with similar fitness goals.
44. As a user, I want to create or join virtual workout groups.
45. As a user, I want to message other users privately.
46. As a user, I want to report inappropriate content in the community.

Notifications & Alerts

47. As a user, I want to receive workout reminders.
48. As a user, I want to be notified when someone comments on my post.
49. As a user, I want to customize which notifications I receive.
50. As a user, I want to receive alerts about new gym partnerships in my area.
51. As a user, I want to get notifications about fitness events nearby.

Payments & Subscription

52. As a user, I want to subscribe to a premium membership.
53. As a user, I want to cancel my subscription at any time.
54. As a user, I want to see exclusive content and features with my premium subscription.
55. As a user, I want to manage my payment methods and billing information.
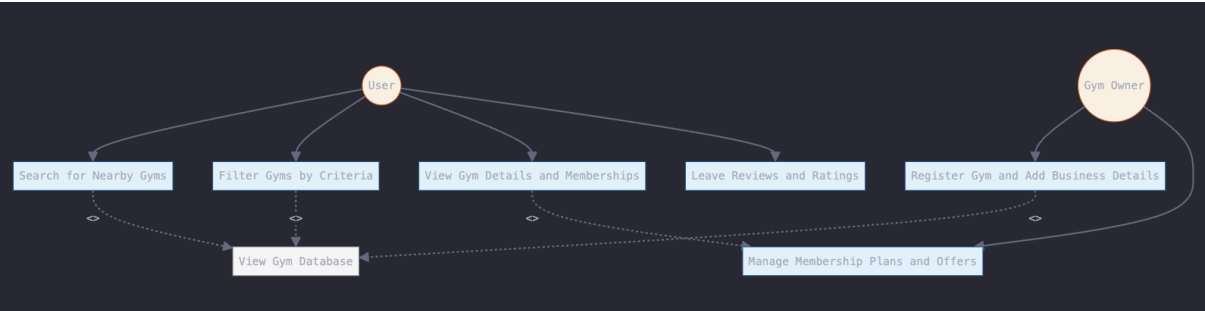
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5. Use Case Diagrams

Use Case Diagram 1: User Authentication & Profile Management
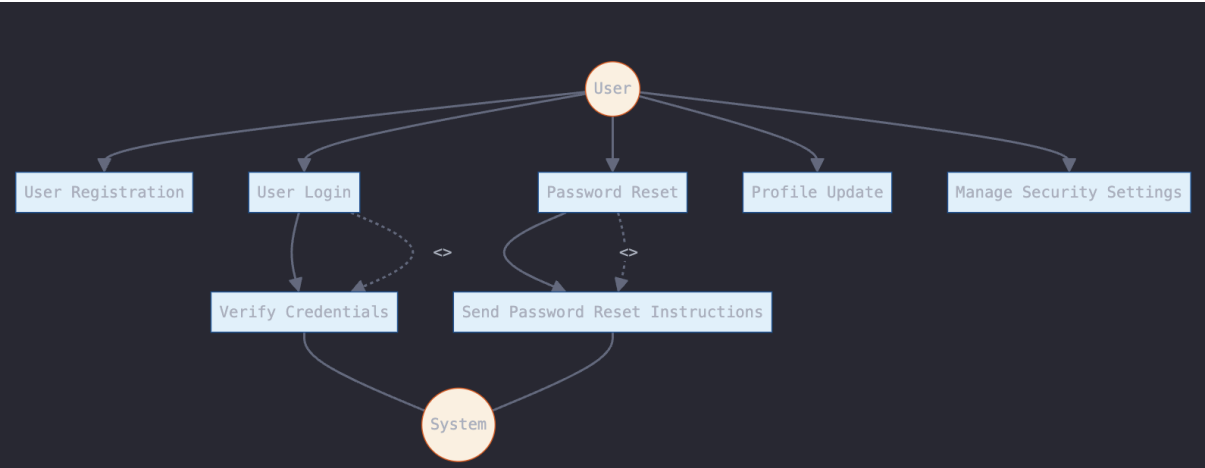
Use Case Diagram 2: Workout Plan Generation & Tracking
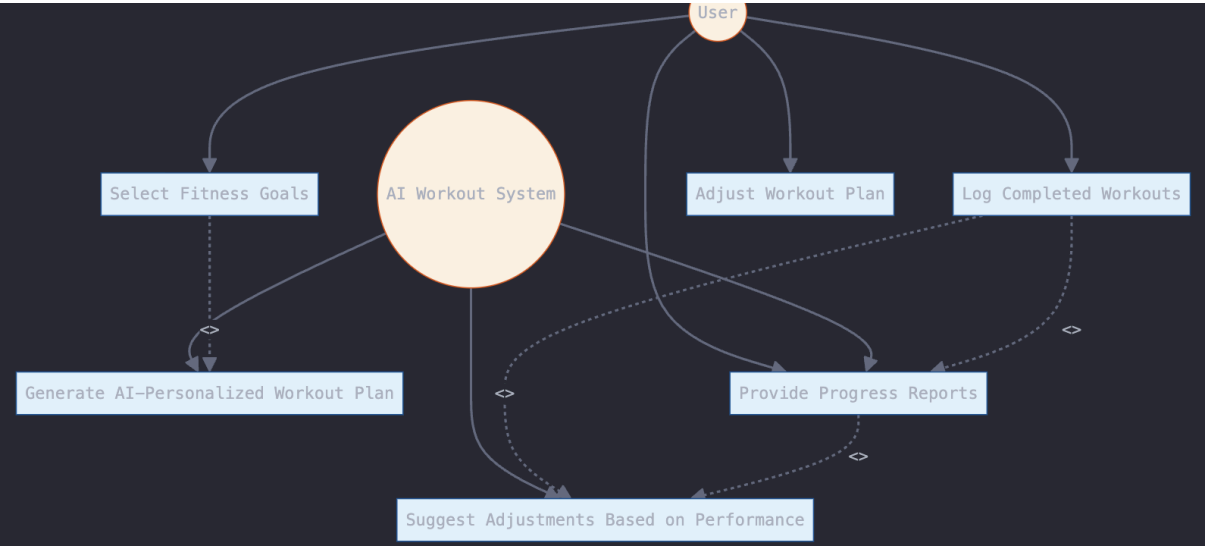
Use Case Diagram 3: Gym Locator & Memberships

6. Conclusion

This SRS document outlines all essential requirements for the Fitness Enthusiasts Hub, ensuring a robust, scalable, and engaging platform. The outlined functional and non-functional requirements, along with user stories and use case diagrams, serve as a blueprint for the development team.