Requirement Gathering for the Online Gym Management System

1. Purpose and Goals

The Online Gym Management System is intended to provide a comprehensive and centralized platform for gym owners, staff, and members. The system aims to:

- Automate and streamline gym operations.

- Enhance communication and collaboration among stakeholders.

- Improve user experience with a user-friendly interface.

- Increase operational efficiency and profitability.

- Offer real-time updates and robust reporting tools for better decision-making.

2. Stakeholders

1. **Gym Owners**: Oversee operations and financial management.

2. **Admin Users**: Manage memberships, finances, and staff.

3. **Staff Members**: Handle class schedules and member interactions.

4. **Gym Members**: Utilize gym services, track fitness progress, and manage payments.

3. Functional Requirements

Member Panel

- **Dashboard**: Display membership details, fitness progress, and plan expiration.

- **Profile Management**:

    o Update personal details.

    o Set fitness goals.

- o Add motivational quotes.

- **Payment Tracking**:

  - o View past and current transactions.

  - o Online payment for membership renewal or upgrades.

- **Class Scheduling**:

  - o View personalized training schedules.

  - o Check weekly classes instructed by specific trainers.

- **E-Commerce Functionality**:

  - o Browse and purchase gym-related products (e.g., equipment, accessories, supplements).

Admin Panel

- **Dashboard**:

  - o Display key statistics (e.g., total members, earnings, memberships).

  - o Notify upcoming events and competitions.

- **Membership Management**:

  - o Create, update, or delete membership plans.

- **User Management**:

  - o Manage member and staff details.

- **Financial Tools**:

  - o View all financial transactions.

  - o Generate and export invoices and reports.

- **E-Commerce Management**:

  - o List products with descriptions, pricing, and promotions.

  - o Notify members of offers.

- **Social Media Integration**:

- Share updates and promotions on platforms like Instagram and Facebook.

3.3 Staff Panel

- **Class Management**:

  - View and manage group or individual schedules.

- **Member Interaction**:

  - Address queries.

  - Assist with member scheduling.

4. Non-Functional Requirements

- **Performance**: The system must handle concurrent users without lag.

- **Security**:

  - Data encryption for financial transactions.

  - Role-based access control (RBAC).

- **Scalability**: Should accommodate an increasing number of members and staff.

- **Usability**: Intuitive interface with minimal learning curve.

- **Compatibility**: Accessible via web browsers on both desktop and mobile devices.

5. Technologies and Tools

- **Backend**: PHP for server-side scripting.

- **Database**: MySQL for storing and managing data.

- **Frontend**: HTML, CSS, and JavaScript for a responsive UI.

- **Payment Gateway**: Integration with secure payment APIs.

6. Potential Features

- **Automated Notifications**: Alerts for membership renewals and fee payments.

- **Advanced Analytics**: Insights into member activity, sales, and trends.

- **Event Management**: Register and notify members about competitions or workshops.

- **Customizable Plans**: Allow admins to create tailored membership plans.

7. Constraints and Assumptions

- All users will have internet access to use the system.

- Members should have a basic understanding of how to navigate web-based platforms.

- The gym will provide initial training to staff on using the system.

8. Expected Outcomes

- Reduction in manual tasks and administrative workload.

- Improved member satisfaction due to easy access and real-time updates.

- Increased revenue through effective tracking of payments and sales.

- Enhanced collaboration and communication among stakeholders.