**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**:
  + Update personal details.
  + Set fitness goals.
  + Add motivational quotes.
* **Payment Tracking**:
  + View past and current transactions.
  + Online payment for membership renewal or upgrades.
* **Class Scheduling**:
  + View personalized training schedules.
  + Check weekly classes instructed by specific trainers.
* **E-Commerce Functionality**:
  + Browse and purchase gym-related products (e.g., equipment, accessories, supplements).

**Admin Panel**

* **Dashboard**:
  + Display key statistics (e.g., total members, earnings, memberships).
  + Notify upcoming events and competitions.
* **Membership Management**:
  + Create, update, or delete membership plans.
* **User Management**:
  + Manage member and staff details.
* **Financial Tools**:
  + View all financial transactions.
  + Generate and export invoices and reports.
* **E-Commerce Management**:
  + List products with descriptions, pricing, and promotions.
  + 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.