



SangLehar FitnessFlow



Gym Fitness Management

A Comprehensive Platform for Membership,
Workouts, and Administration



Presented By:

**Sangita Rawlo
(107223504043)**



**Leharika.k
(107223504014)**





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Abstract

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The Gym Fitness Management System is a web-based application developed using Django (Python), HTML5, CSS, JavaScript, and MySQL, aiming to modernize gym operations by digitizing every manual task. The project provides a centralized platform for administrators, trainers, members, and guests to interact with various gym-related activities efficiently.

The system allows administrators to manage gym memberships, attendance, products, payments, and fitness content, while trainers can create and assign personalized workout schedules and diet plans for members. Members can access these plans, track attendance, shop for gym products, and engage with fitness blogs and videos. Additionally, guests can explore the platform and seamlessly register for gym memberships.



Abstract

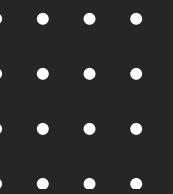
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Key functionalities include automated attendance tracking, membership plan management, product purchases, feedback collection, and comprehensive reporting with advanced filters. The database is designed with structured tables to manage users, memberships, workouts, and payments effectively.

By replacing traditional manual methods, this system significantly improves efficiency, reduces operational complexity, and enhances user engagement. The platform's scalability and user-friendly interface make it a valuable tool for gym owners, trainers, and members, fostering an integrated fitness ecosystem.



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Introduction

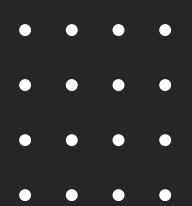
A Gym Fitness Management System is a software application designed to streamline and automate the daily operations of a gym or fitness center. It enhances efficiency by managing memberships, payments, class schedules, trainer assignments, and overall facility administration.

Key Features

- Membership Management
- Billing & Payments
- Class & Trainer Scheduling
- Inventory & Equipment Management
- Reporting & Analytics

Benefits

- Efficiency
- Improved Customer Experience
- Financial Tracking
- Data Security





Modules

Admin Module

The Admin Module is the backbone of the system, providing comprehensive management capabilities for all aspects of the gym's operations. It is designed for the gym owner or staff with administrative privileges.

Trainer Module

The Trainer Module is designed for gym trainers, allowing them to manage members' fitness activities and track their progress.

Member Module

The Member Module focuses on providing gym members with a personalized experience and tools to track their fitness journey.

Guest Module

The Guest Module is for individuals who are not yet members but are exploring the gym's offerings. It allows potential members to interact with the platform to a limited extent.



System Requirements

System Configuration Required:

Operating System: Windows/Linux/MacOS

Processor: Intel i3 or higher

RAM: 4GB or above

Storage: 20GB free space

Browser: Chrome, Firefox, or Edge

Software Required:

Frontend: HTML5, CSS 2.1, JavaScript

Backend: Python 3.8 with Django 3.1

Database: MySQL 5.5

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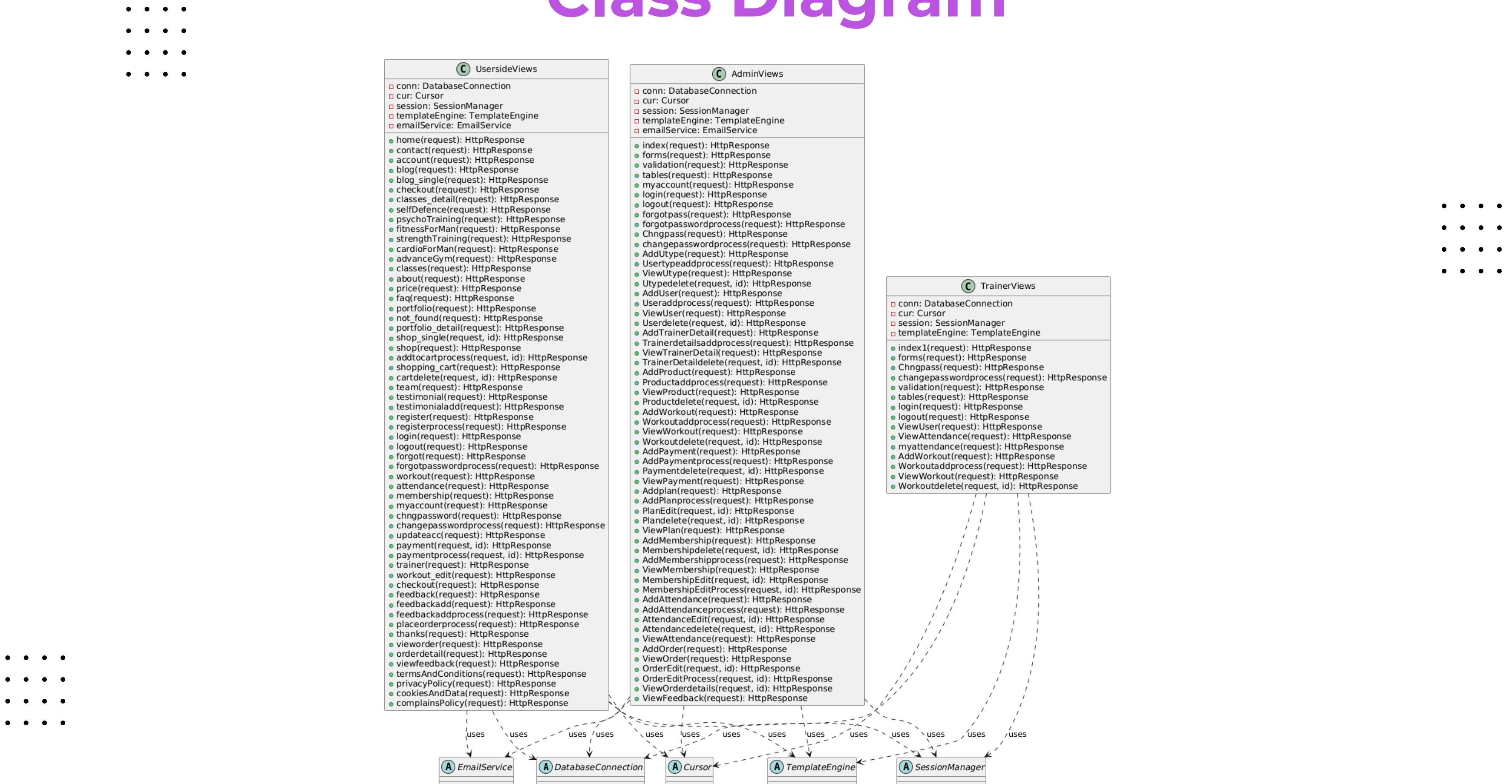
UML Diagrams

- Class Diagram
- ER Diagram
- Activity Diagram
- Sequence Diagram
- Data Flow Diagram
- Use Case Diagram



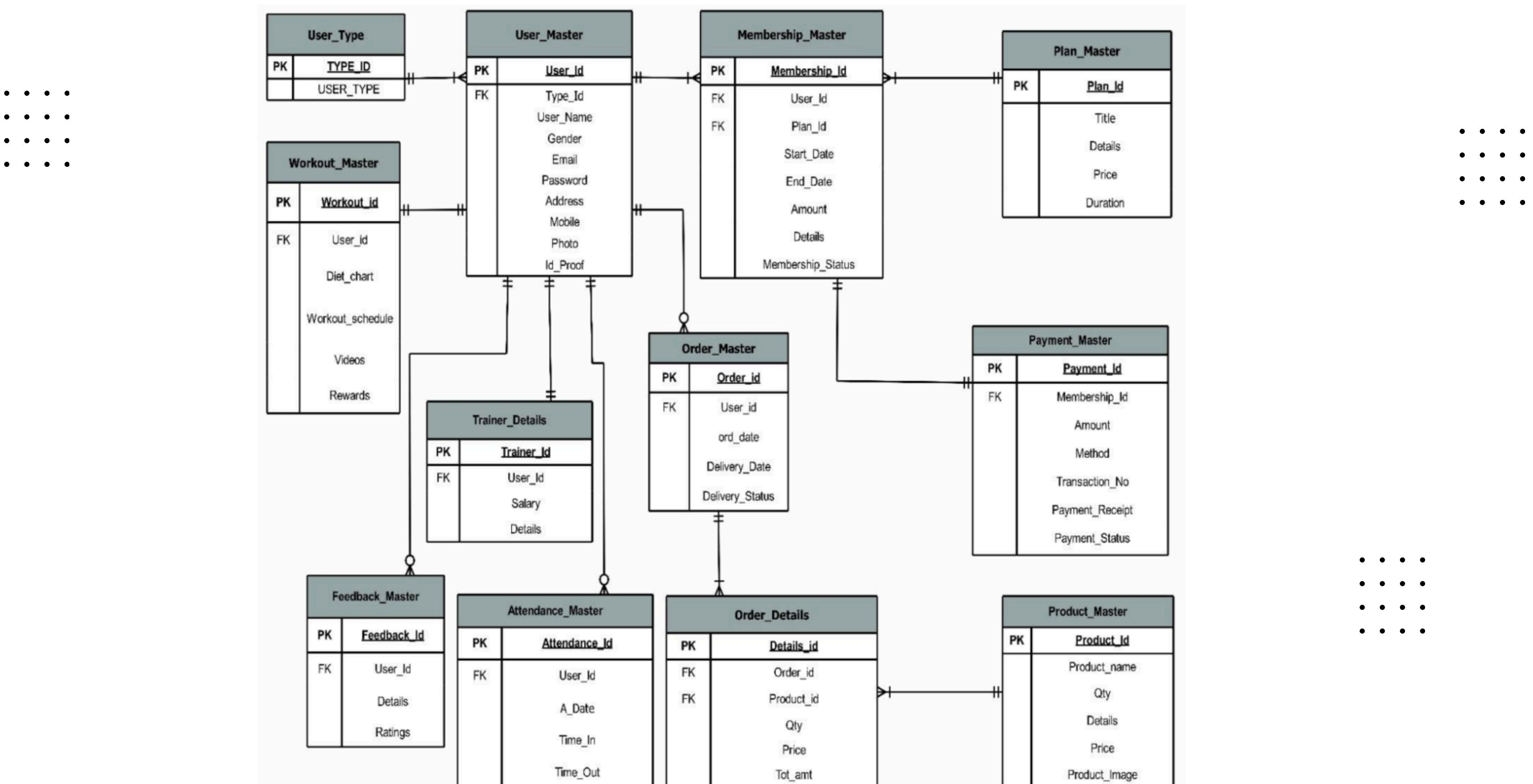


Class Diagram



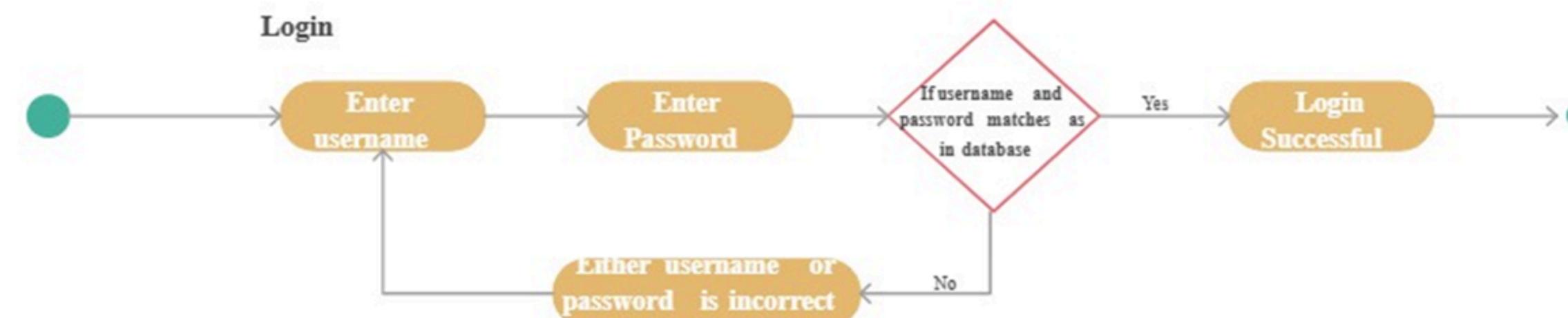
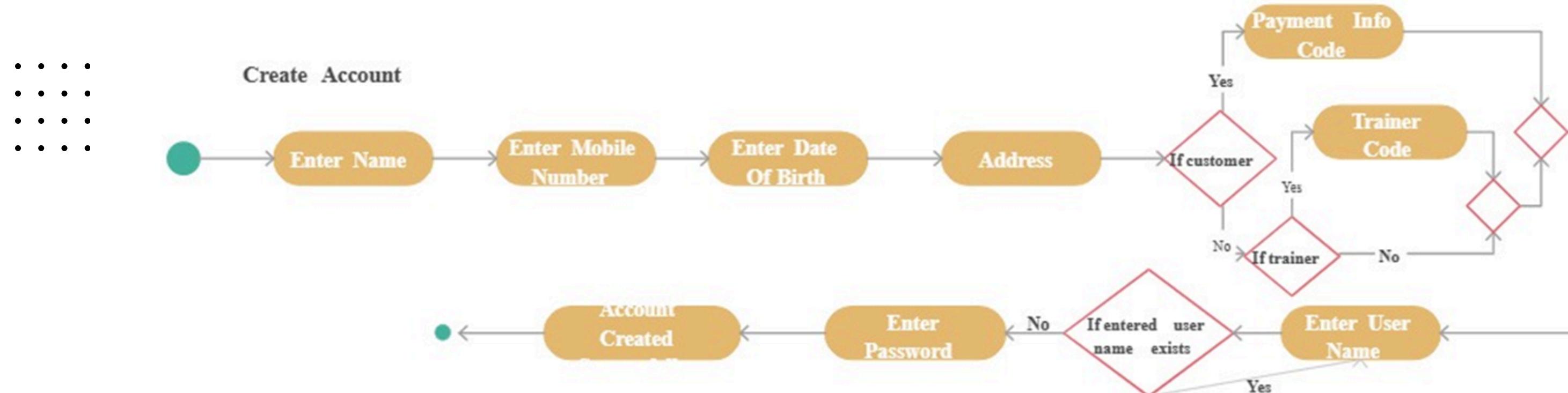


Entity Relationship Diagram



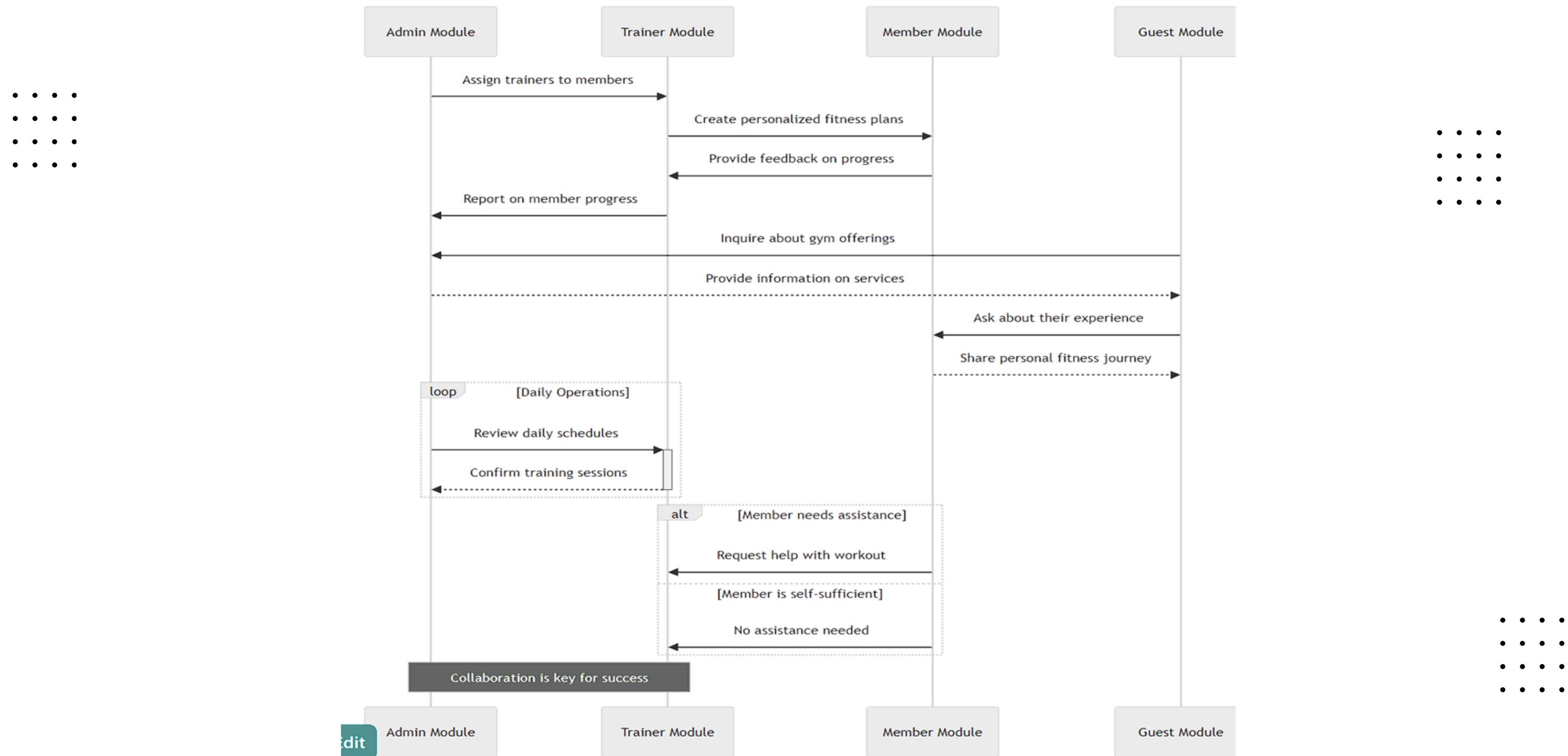


Activity Diagram



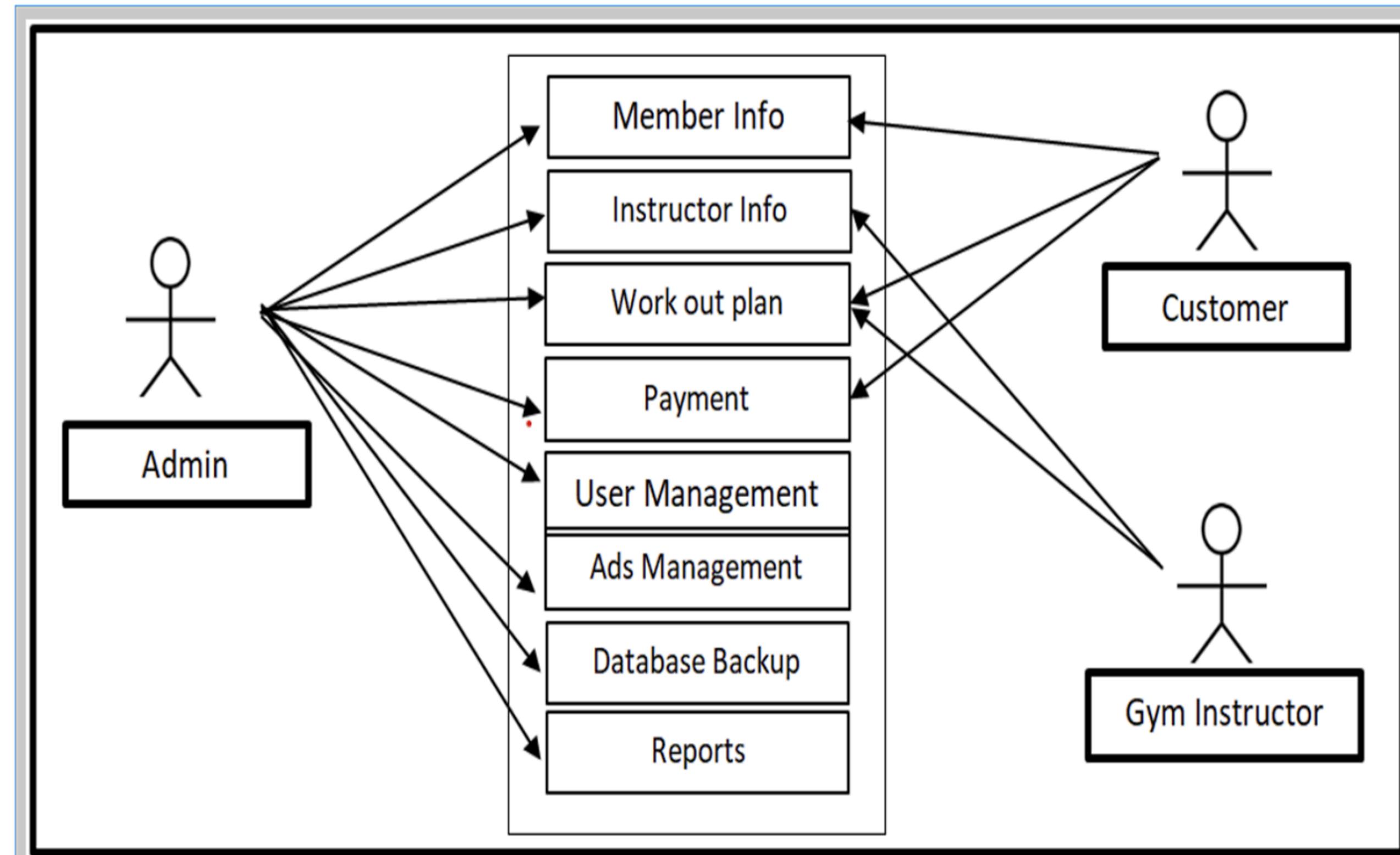


Sequence Diagram



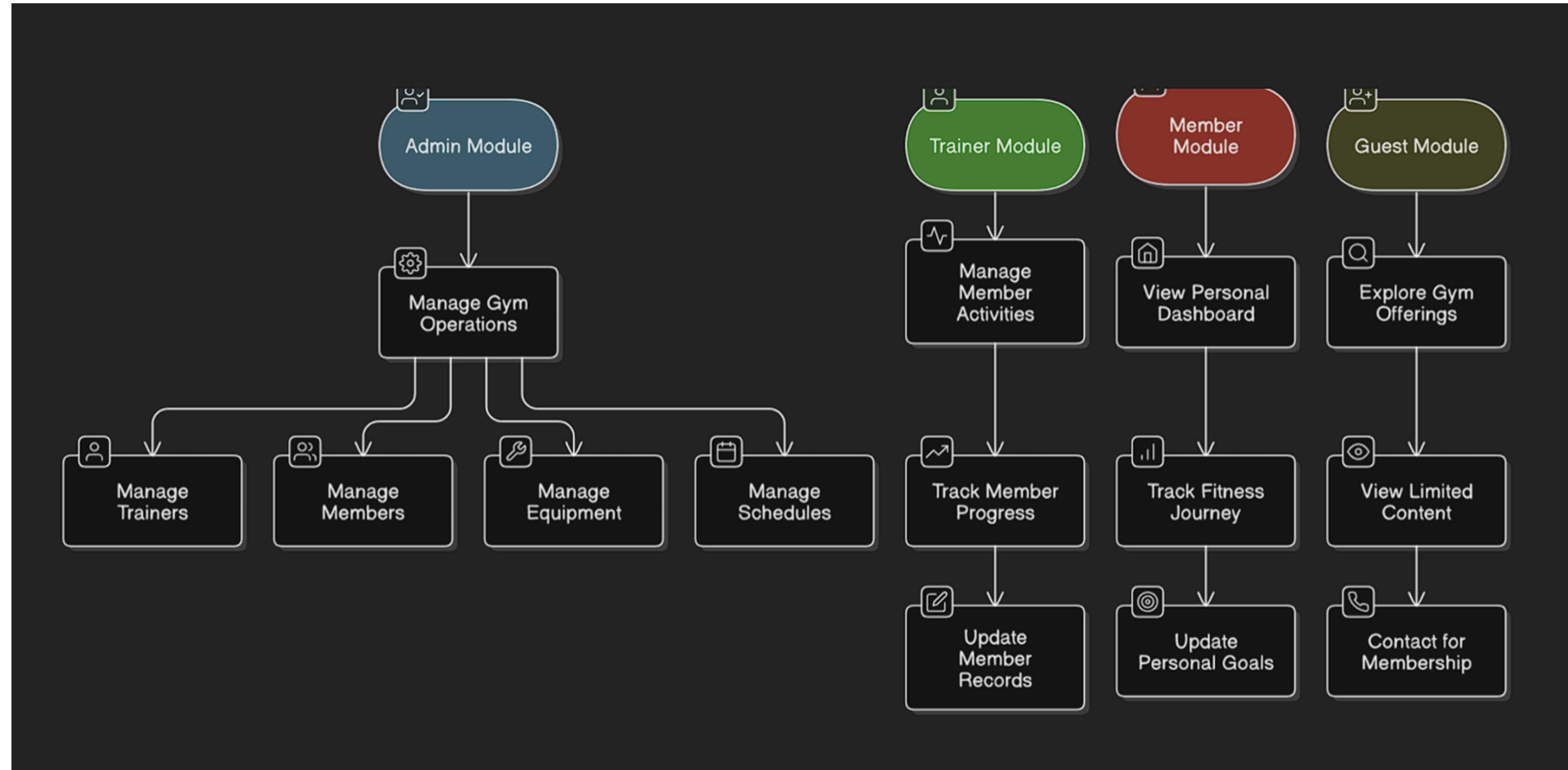


Use Case Diagram





Data Flow Diagram





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Interfaces

Responsive interface optimized for all screen sizes, including:

- Laptop screens
- iPhone 14 Pro Max
- iPad Pro

The collage displays the SangLehar FitnessFlow website's responsive design across multiple devices, illustrating its adaptability to different screen sizes and orientations.

- Top Row (Landscape):**
 - Large Laptop Screen: Shows the homepage with a banner for "RUNNER'S LIFE" and "UNLEASH YOUR INNER ATHLETE".
 - Medium Laptop Screen: Shows the "WE RAISE YOUR CONFIDENCE" section with sub-sections like "Cardio Training" and "Fitness Training".
 - Smartphone: Shows the "GYM PLANS" section with three plan options: Basic Plan (₹1200), Standard Plan (₹6000), and Ultimate Plan (₹10000).
- Middle Row (Portrait):**
 - Large Laptop Screen: Shows the "GYM PLANS" section with three plan options: Basic Plan (₹1200), Standard Plan (₹6000), and Ultimate Plan (₹10000).
 - Medium Laptop Screen: Shows the "GYM PLANS" section with three plan options: Basic Plan (₹1200), Standard Plan (₹6000), and Ultimate Plan (₹10000).
 - Smartphone: Shows the "GYM PLANS" section with three plan options: Basic Plan (₹1200), Standard Plan (₹6000), and Ultimate Plan (₹10000).
- Bottom Row (Landscape):**
 - Large Laptop Screen: Shows the "GYM PLANS" section with three plan options: Basic Plan (₹1200), Standard Plan (₹6000), and Ultimate Plan (₹10000).
 - Medium Laptop Screen: Shows the "GYM PLANS" section with three plan options: Basic Plan (₹1200), Standard Plan (₹6000), and Ultimate Plan (₹10000).
 - Smartphone: Shows the "GYM PLANS" section with three plan options: Basic Plan (₹1200), Standard Plan (₹6000), and Ultimate Plan (₹10000).

Conclusion

The Gym Fitness Management System streamlines and automates gym operations, replacing manual processes with a digital solution. It enhances the management of members, trainers, attendance, memberships, payments, and workouts while providing a user-friendly experience.

Built with Django, MySQL, HTML5, CSS, and JS, the system ensures reliability, scalability, and efficiency. Features like online membership, payment management, workout tracking, and reports improve engagement and decision-making.

Overall, this system boosts efficiency, reduces errors, and enhances user experience, making it a valuable tool for modern gym management.





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Thank You!

We appreciate your interest in our Gym Fitness Management System and its impact on modern gym operations.

For any questions or discussions, feel free to ask.

Looking forward to your feedback! 😊



SangLeharFitnessFlow@gmail.com