

The GYM Management System

G. V. Walzade¹, Omkar Shejpure², Parvin Taji³, Rohit Jadhav⁴

Guide, Lecturer, Computer Engineering, Matoshri Institute of Technology, Nashik, India¹

Computer Science & Engineering, Matoshri Institute of Technology, Nashik, India.^{2,3,4}

Abstract: *The Gym Management System is a web-based application developed using PHP and MySQL to manage gym member records, payment details, and membership plans efficiently. The system automates manual record-keeping processes and provides a simple interface for adding, viewing, deleting, and printing member payment details. It reduces paperwork, minimizes calculation errors in fees and balances, and improves data organization. The system is designed for small to medium fitness centers to digitally manage member information.*

Keywords: *Gym Management System*

I. INTRODUCTION

Managing a gym manually using registers and paper receipts is time-consuming and error-prone. Staff must calculate fees, track payments, and maintain member details regularly. This often leads to:

Lost records

Difficulty tracking pending payments Incorrect payment calculations

The Gym Management System solves these issues by providing a digital platform where gym staff can: Store member information

Manage membership plans

Track payments and pending balances Generate printable receipts

The system is lightweight, easy to use, and does not require advanced technical knowledge.

II. LITERATURE REVIEW

Gym and fitness centers traditionally relied on manual record-keeping using registers, notebooks, and spreadsheets. These methods often resulted in:

Data loss Calculation mistakes

Difficulty in tracking payments Poor member record management

With the growth of the fitness industry, the need for digital gym management solutions has increased significantly.

The rapid growth of the fitness industry has increased the demand for efficient management of gym operations such as member registration, subscription tracking, payment management, and record maintenance. Traditionally, gyms relied on manual record keeping, but this approach has proven inefficient and error-prone. Researchers and developers have proposed various automated gym management systems to overcome these limitations.

This literature review analyzes existing management methods, digital solutions, technologies used, and the research gap that leads to the need for the proposed system.

III. METHODOLOGY

The system follows a client-server architecture:

Frontend

Developed using HTML and CSS

Provides forms for entering member details Displays stored member data in tabular format



Backend

Developed using PHP

Handles form submission, database operations, and business logic

Database

MySQL database named gymdb

Table: members Development Approach Requirement Analysis

Database Design

Backend Logic Implementation

Frontend Interface Design Testing and Debugging

IV. WORKING ALGORITHM

Step 1: System Initialization

Connect to MySQL server Create database gymdb if it does not exist Create table members if it does not exist

Step 2: Add Member User fills member form (name, age, mobile, plan, payment, etc.) System calculates:

Step 3: Display Members

Fetch all records from members table Show data in a structured table

V. ADVANTAGES

- 1.Reduces manual work
- 2.Automatic balance calculation
3. Easy to add and delete records
4. Secure data storage in database
5. Quick access to member history
- 6.Printable receipts for payments
- 7.User-friendly interface

VI. APPLICATIONS

1. Gyms & Fitness Centers
2. Yoga Classes
3. Dance Academies
4. Sports Clubs
5. Personal Training Studios

VII. CONCLUSION

The Gym Management System successfully digitizes the process of managing gym members and payments. It improves accuracy, saves time, and provides better record organization compared to manual methods. The system is simple, efficient, and practical for real-world use in fitness centers.

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