



DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

Web Based Online Gym Management system

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1 Introduction

It is always necessary to study and recognize the problems of the existing system, which will help in finding out the requirements for the new system. The existing gym management system is working manually and the current system is too much time-consuming, less efficient because it involves a lot of paperwork. Moreover, to manage huge amounts of transactions and user data was a very difficult task. So, there should be an automated system which is capable of overcoming these lacking's. That's why I proposed an automated Gym Management system for all gym owners and users. This system has an automated database management transactions facility. This system can keep records of members, membership packages, instructors, gym instruments, etc in the database. It also provides the facility of search advanced search for searching the records efficiently immediately. This system has several functionalities like handle users' fees, buy gym instruments, assign instructors, insert members' data, etc. Moreover, through this platform, all users can access facilities provided by the gym, buy membership package and assign their desired instructors.

2 Objective

- The main objective of the project is to design and develop a dynamic user-friendly system.
- To store the records of customers, instructors, employees, and the admin have the privilege to delete and modify the data.
- To develop an accurate and flexible system, it will eliminate data redundancy, eliminate manual paper works for gym managing employees.
- To develop a digital platform to handle and store all money transactions.
- To develop a Computerization system for gym users which can be helpful as means of saving time buy online products.
- To provide better graphical user interface.
- Less chances of information leakage.
- Provides security to data by using login password.

3 Target Customers

- **Gym Owner:** Person who will be the admin of the system. Who can set price condition and high privilege for modify any data.
- **Gym User:** People who can view the information related to the gym, buy membership packages, buy gym instruments and assign their desired instructors.

- **Gym Employee:** People who have low privilege than gym owner. Delete, modify, insert user and gym instruments data and handle money transactions.

4 Value Proposition

The Gym Management system is designed in providing productivity in the gym and helps in keeping all the records of daily activity and transactions. The proposed Gym Management System provides a significant improvement to the owner and its employee above the manual process of registration of new member, payment and inventory. Gym Staff/Employee – Using an automated system will lessen the effort and avoid hassle in keeping the records. The system will provide an overall representation of whole gym to the gym users where they can access all remote services like buy membership package, gym instruments and assign gym instructors. Although It will provide privacy on their personal information.

5 Web Application Features

5.1 Feature of Gym Users Module

1. Online registration and login of the user
2. Buy membership packages
3. Buy gym instruments
4. View instructor information
5. View gym information
6. Easy payment options
7. Access special offers
8. View gym schedule

5.2 Feature of Gym Owners and Employee Module

1. Manage User
 - Insert New User
 - Edit existing User data
 - Delete User data
2. Manage Trainer
 - Manage Trainer
 - Add new trainer

- Remove trainer
- Assign trainer to member
- 3. Manage Products
 - Add and delete new product Details
- 4. Manage Schedule
 - Create and modify gym instruction schedule
- 5. Manage Payment
 - Add all payment records
 - Verify payment records
- 6. Manage membership packages

6 Tools and Resources

Front end: HTML, CSS, JavaScript/ JQuery

- **HTML:** HTML is used to create and save web document. E.g. Notepad/Notepad++
- **CSS:** (Cascading Style Sheets) Create attractive Layout
- **Bootstrap:** Responsive design mobile friendly site
- **JavaScript:** it is a programming language, commonly use with web browsers.

Back end: PHP, MySQL

- **PHP:** Hypertext Preprocessor (PHP) is a technology that allows software developers to create dynamically generated web pages, in HTML, XML, or other document types, as per client request. PHP is open source software.
- **MySQL:** MySql is a database, widely used for accessing querying, updating, and managing data in databases.

6.1 Software Requirement

- WAMP Server
- XAMPP Server

7 Challenge

To increase efficiency and accuracy with reduced cost by handling huge amounts of data is the biggest challenge of this proposed system. Moreover, the most challenging task is to verify every money transactions record which is valid or not.