GYM BROSS: Gym Management System

In Partial Fulfillment of the Requirement in

IT 211- Database Management System

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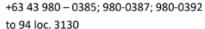
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I. Topic: Gym Management System

II. Title of the Project: GYM BROSS: Gym Management System
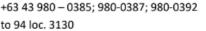
III. Short Background

Introduction

A gym management system is a piece of software created to automate and simplify the different operational and administrative duties involved in managing a gym or fitness center. For gym owners and managers, this kind of system is priceless because it makes it easier for them to effectively oversee their facilities, memberships, employees, and general operations. A fitness business can increase member satisfaction, operational efficiency, and overall success by implementing a gym management system.

Our Gym Management System is a full system program for gyms and recreation centers that manages all your memberships, activities, and members. It is intended for use by health clubs, gyms, and recreation centers. Numerous features of our Gym Management System, including customer data entry, record-keeping of all customer information, fees, plans, and physical fitness, enable gym managers to offer high-quality services to their clients. The proposed system also includes comprehensive information about equipment and coach data. This system also manages the services offered by the gym.
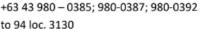
Background information

A Gym Management System (GMS) is a sophisticated software solution that plays a pivotal role in the efficient functioning of fitness centers and gyms. At its core, GMS simplifies and automates administrative tasks, providing a centralized platform for managing various aspects of gym operations. One of its primary functions is member management, offering features for easy registration, profile creation, and membership renewals. This streamlines the process for gym owners and staff to handle and organize member data, creating a seamless experience for both the management and the members.

In addition to member management, the system Gym Bros excels in attendance tracking, employing methods such as manual check-ins to monitor member participation. This feature not only ensures the security of the facility but also enables both gym owners and members to keep track of workout consistency and attendance patterns. Billing and payment processing are seamlessly integrated into GMS, automating the generation of invoices, tracking of payments, and management of various membership plans. This not only simplifies financial processes but also enhances the overall member experience by providing a hassle-free payment system.

Furthermore, Gym Bros serves as a comprehensive tool for class and program management. Members can easily sign up for classes. The system also includes features for equipment management, ensuring that gym equipment is properly maintained and available. Reporting and analytics tools provide valuable insights into membership trends, attendance statistics, and financial reports, empowering gym owners with the information needed to make informed business decisions. With communication tools facilitating announcements and promotions, Gym Bros fosters better engagement and communication between gym

management and members, contributing to a vibrant and connected fitness community. Overall, a Gym Management System is a cornerstone for the success and smooth operation of modern fitness establishments.

In this digital age, Gym Bros is particularly beneficial for individuals in several ways, aligning with the expectations and preferences of the current generation. Firstly, it offers unparalleled convenience through membership management. People in this generation value efficiency and timesaving solutions, and the ability to sign up for gym memberships, manage profiles, and renew subscriptions seamlessly through a digital platform caters to their fast-paced lifestyles.
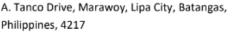
Solution

One of the core strengths of a Gym Management System lies in its ability to streamline membership management. With an intuitive interface, members can easily sign up for memberships, input their information, and renew memberships online. This not only simplifies the administrative process for gym owners but also provides a convenient and efficient experience for individuals, aligning with the modern preference for digital interactions and self-service solutions.

Another significant strength is the tracking of start and end-date of being a member, which enhances accountability and engagement among members. By employing methods such as biometrics, the system ensures accurate monitoring of schedule and program, allowing members to track their workout consistency. This not only fosters a sense of commitment to fitness goals but also provides valuable data for gym owners to assess progress and make informed decisions about the members' exercise routines.

Moreover, the system's program and schedule management features are crucial strengths that enhance the overall gym experience. Members can easily view schedules and
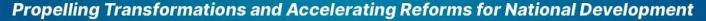
sign up for sessions. This not only improves member engagement but also

contributes to the efficient organization of gym activities. Additionally, the system's integration with fitness apps and wearables adds a layer of personalization, allowing members to sync their workout data and receive tailored recommendations, aligning with the tech-driven and interconnected lifestyles of today's fitness enthusiasts. Overall, a Gym Management System's core strengths lie in its ability to modernize and optimize various facets of gym operations, creating a seamless and engaging experience for both gym owners and members.

IV. Scope

a. Homepage Interface

- The homepage interface of a Gym Management System aims to provide a user-friendly, organized, and visually appealing entry point into the system. It should offer easy navigation, quick access to button functionalities, and a snapshot of essential information to enhance the overall admin experience.

b. Admin interface

- The admin interface of Gym Bros is designed for efficiency, providing a comprehensive set of tools to oversee and optimize various aspects of gym management. It should be intuitive, user-friendly, and equipped with features that empower administrators to make informed decisions and enhance the overall gym experience.
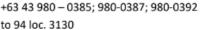
V. Features of Gym Bross: Gym Management System

- **Login Interface**

    - This area is only accessible by administrators. It serves as a security precaution that limits access to administrative features of our system to those who are authorized. It is necessary to correctly enter a predetermined username and password to log in as an administrator.
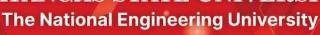
- **Dashboard Interface**

  - The dashboard interface of Gym Bros serves as a centralized hub, offering a snapshot of key metrics and important information for gym administrators. It is designed to be intuitive, informative, and actionable. It provides a comprehensive overview of the gym's performance and member engagement, empowering administrators to make informed decisions and enhance the overall efficiency of gym management.

- **Main Login Interface**

  - The primary login interface of Jollicode serves as the entry point for a secure and personalized user experience. This interface provides two buttons, each corresponding to distinct login options, allowing users to specify whether they are a customer or an admin user.

- **Membership**

  - In this interface, the administrator will input customer's membershipid, membership type and date where they started. Membership interface has submit, membership view and refresh button

- **View**

  -The administrator can access and manage all member information from one central location with the "Viewlist" interface. A number of essential features are built into the interface to help with effective administration.

- **Update**

  The administrator can edit or change a specific member's information by clicking the update button. This is helpful for maintaining current member records, such as when
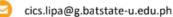
updating membership status or contact information.

- **Program**

    -In this interface, the administrator is provided with a platform that enables the members to offer personalized fitness recommendations and suggestions to individuals who may not have a predefined workout plan. The primary goal is to assist members in planning their daily exercise routines, even if they haven't created a specific workout plan for themselves. The administrator's ability to evaluate members' fitness levels, preferences, and potentially any current health concerns is the core functionality of the interface. The administrator can then create customized recommendations for workouts or programs that are appropriate for each member's needs based on this information.
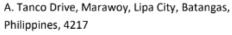
- **Payment/ Transaction**

    - With this specific interface, the responsibility of the administrator is to find out from the gym members what their preferred method of payment is cash or GCash.

- **Report**

    - Administrators can access and view comprehensive data reports about gym members using the "Report" interface.

VI. Database Schema

admin

adminuser	int
adminpassword	varchar(100)

coach

coachid	int pk
coachname	varchar(100)
phonenumber	varchar(100)
specialization	varchar(255)
certification	varchar(255)

member

memberid	int pk
membername	varchar(100)
contactinfo	varchar(100)
age	varchar(100)
gender	varchar(100)
coachid	int fk

membership

membershipid	int pk
membershiptype	varchar(100)
date	timestamp
memberid	int fk

transaction

trasactionid	int pk
membershipid	int unique fk
total	dacimal(10,2)
amount	dacimal(10,2)
change	dacimal(10,2)
paymentmethod	varchar(200)

memberhip_program

membership_program	int pk
membership	int fk
program	int fk

program

programid	int pk
programname	varchar(250)
set	varchar(3000)
categid	int fk

program_categ

categid	int pk
adminpassword	varchar(200)