

GYM Management System

ABSTRACT

In many Gyms, the payment receipts are in paper format. It is very difficult for gym members to keep all the paper receipts safely and for the gym trainer to keep reminding for the fee receipts. Sometimes it creates a trouble when members lost their receipts. The other problem that can be faced by a gym owner is that if he/she wants to inform any message related to working or non-working days of gym, manually sending message become difficult. If there is online application available these problems can be solved.

So, I am developing an android or web application to overcome these issues. This project can be helpful for both gym owner as well as for gym members. In this application all receipts are stored in a digital format, so there are no issues of losing any confidential receipts. This application will also notify the user (gym members) about their fees and also notifies the gym owner about the payment clearance. This application in future can be elaborated by providing supplement store, diet information, personal training etc.

Existing System:

The existing system did not have a user-friendly interface. The details regarding gym members were manually written and recorded. There was no system of paying fees online. The gym members were not notified regarding the fee payment that were outstanding.

The following are the reasons why the current system should be computerized:

- To increase efficiency with reduced cost.
- To reduce the burden of paper work.
- To save time management for recording details of each and every member and employee.
- To generate required reports easily.

Proposed System:

This tool is basically developed to aid the user to add a member to the gym. The user shall be able to add the name, date of birth and contact address of the member. It also records the phone numbers and the height and weight data of the member. It shall have the admission date. It also has an option to check whether the member is new or an existing one. It stores the photo of the member. It shall help the user to know about fee payments. It has the option to select type of fee payments. It could be monthly, quarterly or annually depending on the choice of the member. It also holds the receipt number and the amount of fees paid. It shall also generate reports based on the payment of fees. It shall also enable the user to update information of members. It secures the data of each user. Storage and retrieval of data is fast through these .net tools.

The system proposed has many advantages.

1. The proposed system is highly secured, because for login the system it requires the username and password which is different for each department therefore providing each department a different view of the customer information.
2. It maintains report for all criteria and transactions.
3. Manages member information separately for all bill information separately for considering the requirement of gym.
4. Purchasing and Managing Gym Equipment.
5. Stores information about regular products and equipment.
6. Attendance Management.
7. Diet recommendation.
8. Convenient Time scheduling.
9. Health and Fitness Check.
10. Special Packages (Personalized Trainer Requirement)

Description of Main Features

Staff Panel

Just like the customer panel, this system contains an employee/staff panel that highlights most of the important records. All the staff members are controlled by the gym administrator regarding their details and designation. A staff member can view overall records on the number of members, total earnings, equipment, and so on. As mentioned earlier, the customer's to-do list is visible to staff members all well, but none are allowed to interfere. The system allows access to view members' status too(codeastro.com). Here, the user can view a list of registered customers' details with their account status. Denoted with active, expired, or pending. Besides all of these, the staff members can manage payments, alert members, and maintain members' attendance.

Admin Panel and Member Management

An administrator has full control over the system. He/she can manage customers, equipment, status, payment, and so on. Here, each and every section has its own respective details such as name, and other important details. Here, an admin can add members' records directly by filling up required forms. During the member registration, an admin has to provide details such as name, contact, services, plans, registration date, and total amount. In fact, this registration process directly contributes to total earnings, unlike customer self-registration. Also, an admin has to manage all the pending member records(codeastro.com). An account only gets activated unless he/she completes the payment process. With it, each and every gym member has its own account status. Only the active accounts can log into the system whereas the remaining won't be able to log into the system.

Gym Equipment and Attendance Management

Similarly, an administrator can manage and list out a number of gym equipment. For this, the user has to provide a number of details related to equipment. That includes the name of equipment with description, purchase date, quantity, vendor details, and total cost. All these records are directly tied up to the expenses section and in fact, it is in one or the other form. With the management of this

section, the system calculates total expenses from gym equipment and lists them out under the dashboard. This way, the system helps to keep track of each and every side of records. Additionally, the admin can simply manage attendance for their members. The working term of attendance is that the system will keep track of check-in and out of each member and marks under the reports section. With it, the admin can list out attendance records with their total working days.

Payments and Send Notifications

Moreover, each and every member are required to make their payments in time. These payments totally rely upon the selected services and plans. In fact, these payment plans can be changed anytime. Here, the payment calculation is done by the selected services amount upon total plans. Also, an admin and staff members can only proceed with the payment process. For this, the user has to select any of the customers, select existing plans (monthly, yearly), and set account status. After each successful transaction, the system provides payment receipts. These receipts contain all the important details starting from the transaction date to the charge per month and the total amount(codeastro.com). In addition, the user can print out these receipts too. In terms of sending notifications, an admin can alert customers regarding fees due with a single click of a button. With this, the customers can view alert messages from their respective accounts.

Gym Announcement and Staff Management

On one hand, only the administrator can set and manage announcements for the customers. This particular section helps to alert the system users regarding upcoming events, news, and other gym-related information. In fact, it's a great way to convey messages around. In order to announce messages, the admin has to provide text messages with an applied date. As a result, the announcement can be visible from each and every user's panel. Also, the system contains a section that allows the admin to manage staff members. The management of staff members requires details such as name, email, gender, contact information, designation, and set up login details. There's no registration form available for the user to self register themselves as staff members, unlike customers.

Customer's Progress and Report

On the other hand, the system also helps to keep track of their customer's progress. It requires a number of initial information like weight and body type. In order to manage the customer's progress, the system requires the customer's initial and current weight with initial and current body type. And after, the system calculates the total percentage of progress done within a certain period of time. Besides, the admin can view reports on various topics. These topics include a report on members, customer progress, and an overall report using chart representation. Under the overall report, the system presents figure illustrations on services, total earnings, and expenses reports using bar graphs. Whereas, both members and progress reports display the overall members' report with their in-depth details where the admin can also download/print a copy of it. The report includes details such as membership id, service, plan, charge, payments info, and others.

System Specifications

Software Requirements: -

Front End: HTML5, CSS3, Bootstrap, PHP

Back End: MYSQL

Control End: Angular Java Script

Android Tools: IDE: android Studio

Android Emulator

xamppwin32-5.5.19-0-VC11

PHP Tools: xampp-win32-5.5.19-0-

VC11

Hardware Requirements:

Processor: Intel 3

Installed memory (RAM): 4 GB

Hard Disk: 500 GB

Operating System: Windows 7,8,10 - 64 bit