

ABSTRACT

Topic: FitZone

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FitZone (e-gym)

FitZone is an automated system for gym. FitZone make it easier to manage a fitness center or gym.it helps the users to get a quick access to the overall events in a gym. The main objective of this project for the better performance of gym and to manage that services through computerized system. The purpose of this system is to digitalize and create an automated system. The system will perform the task like adding the new member to the gym, Removing the member or keeping the payments records and other stuff required in managing the gym properly. The present scenario in the gyms is that the records are kept by writing in a file on paper. Every management task is done manually.

This creates a system unreliable and confusing to keep the correct track of the records. The maintenance of a system like this is hardly required until it needs to change any part of the system. The information about the various things contained in the system are like members, trainers, the equipment can get by just a few clicks unlike the paper documents required the serious reading for such information.It helps in creating the various batch according to their preference or if they want a particular trainer. It made it easy to generate the reports of various operations performed in the gym are like paying the fee it can be stored and later evaluated and get the list of members who did not pay the fee. It also helps the users in reducing the carbon footprint as the amount of paper used in the company reduces.

This also helps in keeping the standard width of the management system as if there is a case where the administration involves more than one person to manage the gym. This system does not only limit itself to the administration and but also helps the members of the gym. The members can have options like attendance and fee payment change batch request etc. This will improve the transparency between the members which is always a good quality in the system. It will also give a layer of security to the administration and the users that only authorized users can access by their credentials.

SYSTEM STUDY

1.EXISTING SYSTEM

An Existing system refers to the system that is being followed till now. The gym is working manually. The current system is time consuming and also it is very costly, because it involves a lot of paperwork. To manually handle the system was very difficult task. But now-a-days computerization made easy to work. 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.

In the gym management system, if we take the current system and compare it with the proposed it is far behind. Every work in the existing is manual and done on paper. There might be a computer used somewhere for the work but it's is not doing exactly what it's is supposed which is reducing the manual work. Entering everything manually to the computer by creating a file is not exactly what we are talking about in computerization. The existing system requires a lot of manual work which results in taking more time than it should. The operations like updating and synchronizing data are also done manually in the existing system that is not automated and again time-consuming process.

These practices are not at all reliable as the one wrong entry can take a lot of time in detection and then there is a correction. Humans are prone to errors and can mistakes often unless it has some inbuilt programs which can take check the input

and save from error. We introduced the system to reduce the manual work effectively as there is the backend of the system which will take care of synchronizing and updating the data for the system. So, if there is any change in the system data it will appear to all other users of the system. As the system was not online the member cannot see their timeline that the event generated by them in past such as fee payment, attendance, batch timing, and trainer profile, etc. Keeping an automated system is also helps in managing the member's information secure and safe. As it can only be seen by the administrator with the correct credentials which is not an option in the existing system. Unless the records are kept in a physically safe location such as a locker.

Website: [Fitness Business & Class Booking Software - Gymcatch](#)

[GymMaster - Health Club and Gym Software](#)

Disadvantage of existing system:

- Required a lot of paperwork and the process takes time.
- Everything is done on paper and these are highly prone to damages and require a good amount of security and space to store.
- Required Buying of goods more frequently as compared to the online system e.g.: paper, pen.
- Likely to have an error.
- Lack of storage space for handwritten documents.
- Require more physical work and manpower.
- Information is not available globally to both clients and employees hence location restriction

☐ Time consumption:

As the records are to be manually maintained it consumes a lot of time.

☐ Paper work:

Lot of paper work is involved as the records are maintained in the files & registers

☐ Storage requirements:

As files and registers are used the storage space requirement is increased.

□ Less reliable:

Use of papers for storing valuable data information is not at all reliable.

□ Accuracy:

As the system is in manual there are lot many chances of human errors. These can cause errors in calculating mechanism or maintaining customer details.

□ Difficulty in keeping new records:

It is difficult for keeping all the new entries of members, their account and transaction details.

These issues can be overcome by the proposed system. It makes the process more easier and there is no expense is required.

Also android module will be introduced so that we can make it more userfriendly.

2. PROPOSED SYSTEM

In the gym management system, after the planning and analysis phase of the system gets completed. Then the next phase required to transform the collected required system information into a structural blueprint which will serve as a reference while constructing the working system. It is a phase when most of the risks and errors unveiled so it's is good practice to take care of this thing from the start.

This is a fully-fledged system that will be the backbone of the whole management of the gym so ignoring the risk or error is not an option as later it can make a greater form of itself. So, it is better to minimize the problems faced by both staff and the manager in the Organization.

Scope of proposed system:

The system proposed has many advantages.

- 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.
- It provides wide range of certain criteria in each window the client is working for better and quicker solution.
- It maintains report for all criteria and transactions.
- Manages member information separately for all bill information separately for considering the requirement of gym.
- Stores information about regular products.
- Diet recommendation

SYSTEM FEATURES

It mainly contain five users.

1. Admin
2. User
3. Staff
4. Trainer
5. Physician

➤ Admin:

1. Login
2. Add staff
3. View all users
4. Add events
5. View/delete events
6. Update prices/charges
7. View payment details
8. Sanction leaves of staff, trainer & physician
9. Update salaries of staff, trainer & physician

➤ User:

1. Register
2. Login
3. View events
4. Book events
5. View training plans and schedule
6. View gym workouts
7. View diet chart
8. Book appointments for physicians
9. Buy medicines
10. View competition details
11. Payment
12. Download payment receipt
13. Download health improvement report
14. Submit complaints
15. Submit requests

➤ Staff:

1. Login
2. Add trainer & physician
3. View/delete trainer & physician
4. View payments
5. Add competition details
6. View participants list for each competition
7. View salary slip
8. Apply for leave
9. View leave status
10. View feedback from Users
11. View complaints
12. Scheduling the trainers & physicians
13. Stock management for store
14. View request from user

➤ **Trainer :**

1. Login
2. View events
3. Apply for leave
4. View salary slip
5. View leave updates
6. View schedule for training
7. View competition participants
8. View own schedule
9. Request for any change in schedule

➤ **Physician :**

1. Login
2. Apply for leave
3. View salary slip
4. View own schedule
5. Add/update diet planning
6. Add medicine names in the stock
7. Prescribe medicine
8. Add/update diet chart
9. View leave status