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Implementation of Gym Management System Web Application

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ABSTRACT: The project 'gym management system' is prepared to eliminate the time required for existing system in the previous system there is no records secured as all the paper work was there and if the paper misplaced then all the records will gone so to avoid all these problems this gym management system project has been developed. Through these all the records are maintained and secured. In gym management system it requires a system which handle the details easily and security according to user. It also requires software which store data about staff and persons. This is very useful system and beneficial also. To overcome this drawbacks the Gym Management Software is introduced which gives computerization of the existing system is proposed. The new system must completely remove all manual burdens and provides efficient on the entry system.

KEYWORDS: Database management, Motivational Session, Body Workouts, Fitness, Gym Equipment, machine work, online registration.

I. INTRODUCTION

We as a whole know for person wellbeing is a most significant thing and being sound is first thing that we keep to us. Being solid and fit empowers us to do anything, anyplace. Great wellbeing is vital for tranquil life. Every individual takes appropriate eating regimen, legitimate activity, Rest for sound and blissful life. These three things are generally significant for disease free life. Everybody should astute about our wellbeing on the grounds that for sound and appropriate life and life is so valuable. The point of the task is to planned and fostered the mechanized framework for example machine work. In this framework by and by records are kept in the exercise center by writing in a document on a paper or it will enroll. Each administration task is done physically. Present framework is problematic fir keeping exact records. Exercise center will assist with creating the reports of different Tasks acted in the exercise center. Installment of charges, rundown of individuals who didn't paid expenses. Rec center will likewise help for making clusters might be of specific coaches. By this framework paper less work should be possible without any problem. Framework will help individuals as well as Physical fitness is very necessary for a healthy and tension free life. Being healthy and fit gives us energy to do anything. Physical fitness includes diet, exercise and sleep. These three basic things have their own importance in each individual's life and everyone should be sensible with regard to these for a healthy life. In this system presently records are kept in the gym by writing in a file on a paper or it will register. Every management task is done manually. Present system is unreliable fir keeping accurate records. Gym will help to generate the reports of various Operations performed in the gym. Payment of fees, list of members who did not paid fees. Gym will also help for creating batches may be of particular trainers. By this system paper less work can be done easily. System will help members as well as administration. It has various famous Trainers available to train the candidates. It also provides a safe and fun environment that allows every individual in developing fitness. Here candidates are given opportunities to take part in various competitions in the Gym.



II. LITERATURE SURVEY

The most of approach to making your labor of love for a cherished brand is to make it accessible on the web. A site is accessible the entire day, consistently meaning your clients can visit our site at all time ,regardless of what their timetable could be our site is one of the most outstanding promoting device our business has not exclusively might the utilization Web optimization while building our site however lead to more at any point opportunity to getting tracked down in web crawler, yet immense measure of showcasing methods can likewise work close by our site including pay per click publicizing online entertainment advertising and mail, all which can incorporate connections back to our site. It gives a few decent highlights too like MVC Design Backing, secure movement framework, libraries and measured and inventive layout motor. Other significantly involved programming in the advancement cycle is Visual Studio Code Content manager. This is an allowed to utilize cross stage programming utilized as a word processor for different coding dialects. Visual Studio Code incorporates support for dialects like HTML, CSS, JavaScript, Java, Python, Php, and so on. Visual Studio Code is only a content manager which is just utilized for composing/changing the code and not an IDE. Our venture was generally written in the word processor and not in any IDE. Visual Studio Code gives auto complete to the sentence structure which saves a ton of time and not expecting to recall the grammar.

III. EXISTING SYSTEM

Every work/task/records in the existing system is done on the paper manually which takes much more time. Updating the data and much more records (which is not automated) is very time consuming process. When everything is done manually there are always chances of human errors and the detection of the process is long process. Present system is not online, so there are many drawbacks for the administration and members. Members cannot see online. 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. In today's world everyone find ease to get review of product by searching it on Google. In existing system of gym management client uses MS excel or paper. To maintain their records, also it is not possible to share the data from multiple systems in multi user environment; there is need of duplicate work, and more chances of mistakes. If record get change then excel file was required to update each and every time. After that their exist Smart Gym Management which eliminates most of the flaws of existing system. This system was came with increased efficiency and effectiveness, capacity, maintenance and cost reduction which made system smarter.

1. Payment of fees paid by them (updated account)
2. Record of attendance
3. Batches timing
4. Trainer profile
5. Membership selection

Present system of gym management is always time wasting system for the management and changes of the error are always there information about gym, members and trainer is not safe and secure in present system Because of any reason fire occurred and record is burnt.

IV. PROPOSED SYSTEM

In this rec center administration framework complete computerization of the exercises of the exercise center to Keeping up with records of everything in the computerized framework. There will be inbuilt programming which can recognize botches right away. This is completely evolved framework which will be the supporting for the administration of the exercise center so disregard mistake isn't a choice in light of the fact that after it makes itself huge type of that. It additionally needs that kind of programming which will store data about understudy, representatives, items and so forth. And all understanding/bargain that happen in rec center. This is exceptionally



helpful framework as it records and keeps up with all the data connected with individuals in the exercise center. The desk work is diminished because of this framework and as well as human asset too. In this framework we have mechanized every one of the records and this task is vital and helpful..

Productivity

Subsequently the portal is attached to the MySQL server so all the data is in cloud storage, so we need to start the server when we need to run the portal on the browser.

Reliability

The website is maintaining privacy and do not merge with other details. No one cannot log in without their unique id and must they need to signup if their details do not validate and here a fig 2 is attached and it is home page

Flexibility

It will run on any website but user must and should need to accept the policy of the portal and it is very attractive to users to visit

The subtleties of individual who is in the rec center, exercise center hardware subtleties and so forth. This product bundle permits putting away the subtleties of the multitude of information connected with an exercise room. The recently evolved site for Wellness The board Framework is more fit than the manual information base since it gives the offices like, enormous capacity limit, high velocity, more exactness and high security.

V. SYSTEM OVERVIEW

MODULES:

4.1. User Registration:

- User visits the gym website.
- User clicks on the "Register" button.
- User fills in the registration form with personal details.
- User submits the form.
- System validates the user's information.
- If valid, the user is registered and can proceed to login.

4.2. User Login:

- User visits the gym website.
- User enters their login credentials (username and password).
- User submits the login form.
- System verifies the credentials.
- If valid, the user is logged in and directed to the dashboard.

4.3. Dashboard:

- User is presented with the main dashboard after successful login.



- User can view personal information and membership details.
 - User can access various features and options.
- 4.4. **Membership Management:**
- User selects the membership management option from the dashboard.
 - User can view available membership plans and their details.
 - User can select a plan and proceed to payment.
 - User makes a payment for the selected membership plan.
 - System updates the user's membership status.
- 4.5. **Class Schedule:**
- User selects the class schedule option from the dashboard.
 - User can view the available classes and their timings.
 - User can select a class and enroll in it.
 - System updates the user's enrolled classes.

VI. SYSTEM IMPLEMENTATION

5.1 HTML (Hypertext Markup Language):

HTML is the standard markup language used for creating the structure and content of web pages. It defines the elements and their layout on a webpage. HTML tags are used to mark up elements such as headings, paragraphs, images, links, forms, etc.

5.2 CSS (Cascading Style Sheets):

CSS is used to style and format the appearance of HTML elements on a web page. It allows you to define colors, fonts, layouts, and other visual aspects of the website. CSS works by selecting HTML elements and applying specific styles to them using selectors, properties, and values.

5.3 JavaScript:

JavaScript is a programming language that adds interactivity and dynamic behavior to web pages. It enables you to create responsive and interactive features such as form validation, animations, event handling, DOM manipulation, and more. JavaScript can be embedded directly into HTML or included in separate script files.

5.4 PHP (Hypertext Preprocessor):

PHP is a server-side scripting language used for developing dynamic web applications. It allows you to generate dynamic HTML content, interact with databases, handle forms, perform file operations, and more. PHP code is executed on the server, and the resulting HTML is sent to the client's browser.

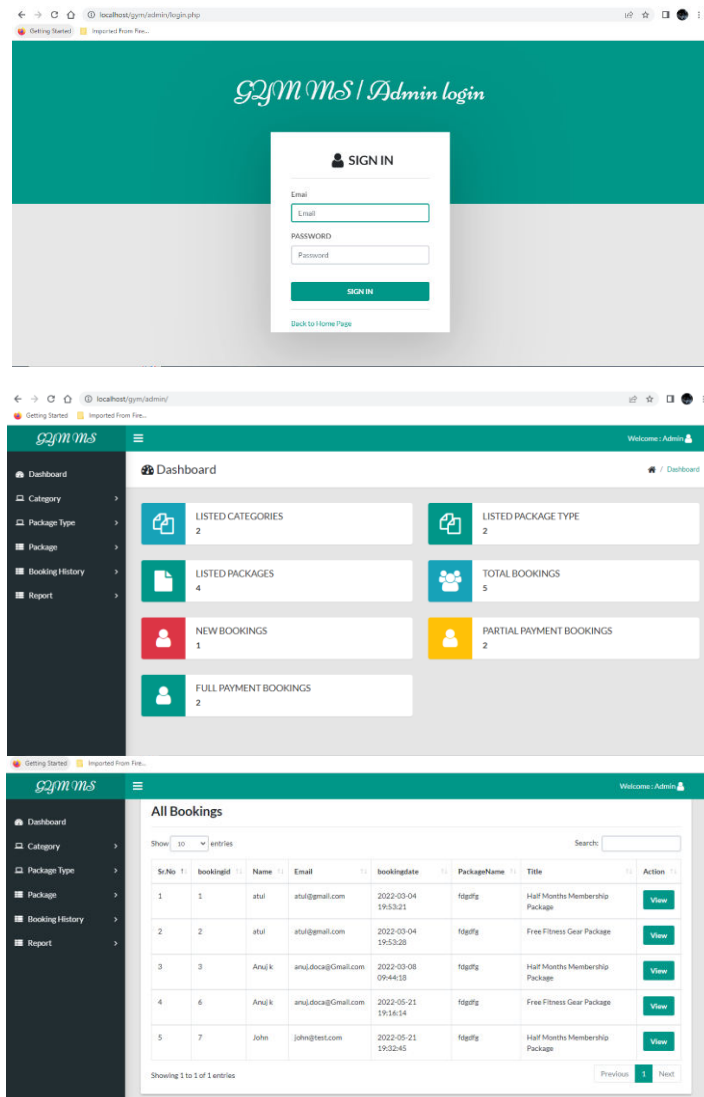


5.4 MySQL:

MySQL is a popular open-source relational database management system (RDBMS) used to store and manage structured data. It provides an efficient way to store and retrieve data for web applications. PHP can interact with MySQL to perform operations like inserting, updating, deleting, and querying data.

5.5 Bootstrap:

Bootstrap is a front-end framework that provides a collection of pre-built responsive CSS and JavaScript components. It allows developers to create modern and mobile-friendly websites quickly. Bootstrap includes grid systems, typography, forms, buttons, navigation bars, modals, and many other UI elements that can be customized to fit the project's needs





VII. FUTURE ENHANCE

6.1 MOBILE APP DEVELOPMENT:

Develop a dedicated mobile app for the gym management system. This allows members to access their accounts, view schedules, make payments, and receive notifications directly on their mobile devices. A mobile app provides convenience and enhances engagement with the system.

6.2 VIRTUAL CLASSES AND TRAINING:

Offer virtual fitness classes and personal training sessions through the web application.

6.3 ADVANCED ANALYTICS AND REPORTING:

Implement advanced analytics and reporting features to provide insights into member activity, class attendance, Equipment usage.

6.4 INTEGRATION WITH PAYMENT GATEWAYS:

Integrate popular payment gateways to enable secure online payments for membership fees, class enrollments, and other services. Offering multiple payment options and ensuring a seamless payment process improves user experience and reduces administrative overhead.

VIII. CONCLUSION

This system will be successfully designed and developed to fulfill the necessary requirements of user, such as recommending proper diet and exercise to user by well-known consultancy & trainer respectively, video or text chat, activity tracker, online payment and field level validation will perform efficiently. Even this system includes intelligence i.e. after certain data get store, system will recommend diet and exercise to user rather than any trainer and consultancy which will be benefited for admin as well as for user.

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