



INDIAN INSTITUTE OF
INFORMATION
TECHNOLOGY

Project Report

Gym Management System

A project report dedicated to the courses
Database Management System and
Software Engineering
Submitted by Team 18

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Organization Overview:-

The Gym Management requires a system that will handle all the necessary and minute details easily and proper database security accordingly to the user. They require software, which will store data about members, trainers, products, payroll etc & all transactions that occur in Gym and lock-up with graphical user interface(GUI).

Objective of the Project:-

- The main objective of the project is to design and develop a user-friendly system.
- Easy to use and efficient computerized system.
- To develop an accurate and flexible system, it will eliminate data redundancy.
- Computerization can be helpful as means of saving time & money.
- To provide better graphical user interface.
- Less chances of information leakage.
- Provides security to data by using login & password.

Scope of the Project:-

- Storing information of members, employees.
- Check validity of information provided by user.
- Storing information of members according to their id.
- Generating reports for different id.

Introduction to Project:-

We have done a project on Gym Management and database management and transactions. This system is proposed to be an automate database management & transactions. This stores trainer, member, payroll, and products information. It also provides the facility of searching the records efficiently & immediately. This system provides data storing & report generation with graphical user interface (GUI).

Existing System:-

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.

Limitations of existing system:

- ♣ 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.

Proposed System :-

The proposed system is managed by the visual studio code, which are user friendly windows for every user and for maintaining the database Sqlite is used.

Scope of proposed system:

The system proposed has many advantages.

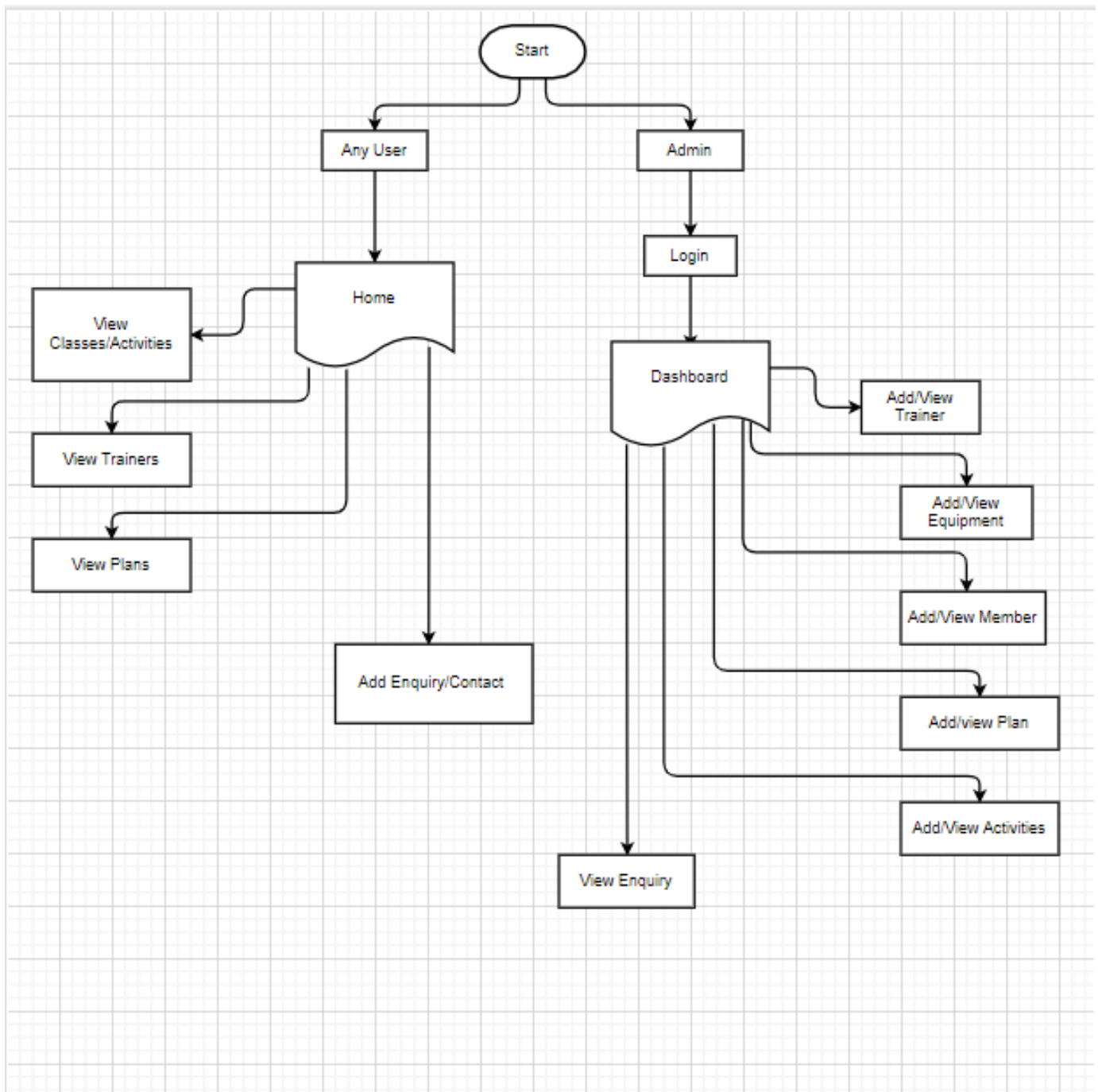
1. The proposed system is highly secured, because for login the system it requires the username and password.

2. It provides wide range of certain criteria in each window the client is working for better and quicker solution.
3. It maintains report for all criteria and transactions.
4. Manages member information and trainer information separately for considering the requirements of gym.
5. Stores information about regular products.

Technology Used:-

- Software Used : Python Interpreter, Visual Studio Code (IDE), Chrome or Any Browser.
- Front-End Used : HTML, CSS, Java Script, Bootstrap
- Back-End Used : Python , Sqlite (Database)

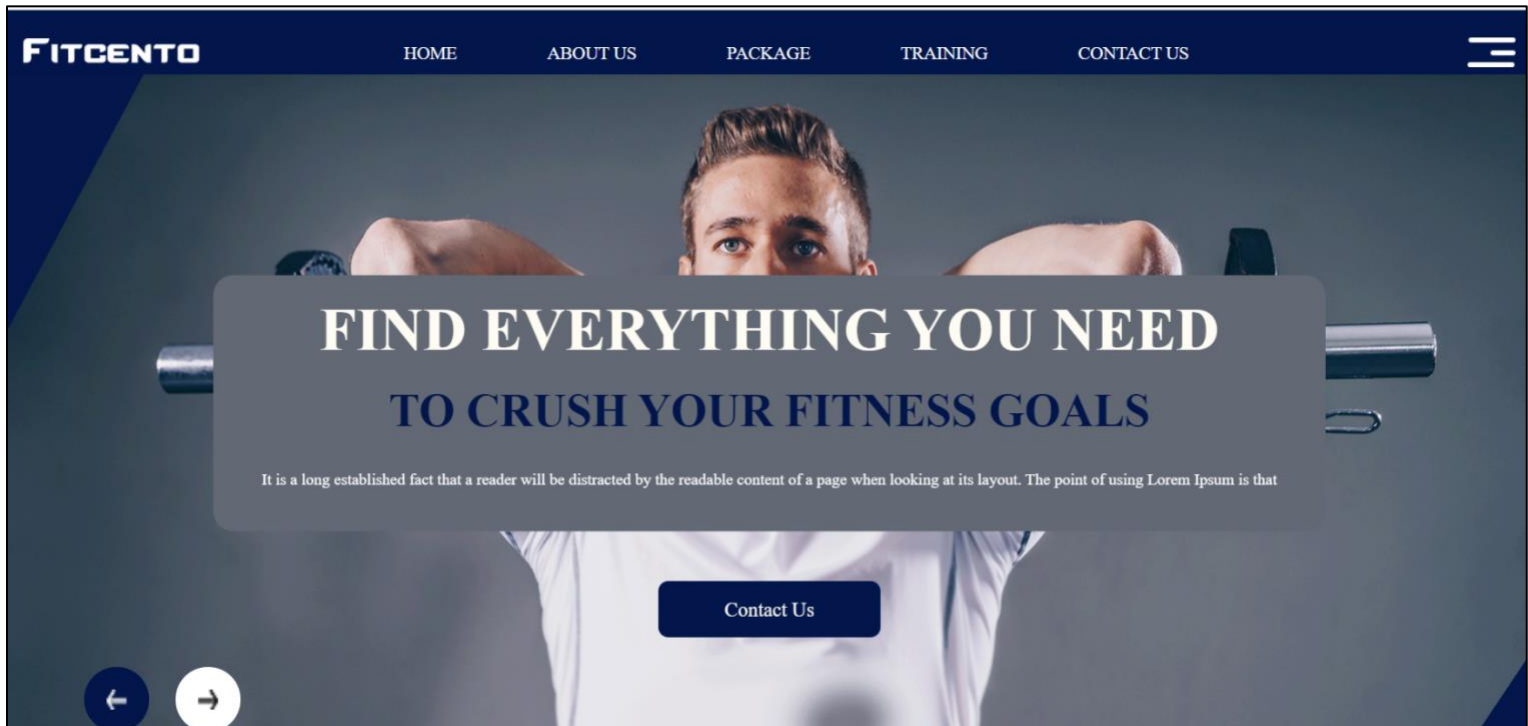
Functional Flowchart:-



Functional Specifications:-

❖ User's POV:

➤ Home :



This page could be accessed by any person (i.e., admin or member or trainer or any xyz) with all the other pages included in the header i.e.,

➤ About Us :


ABOUT US

It is a long established fact that a reader will be distracted by the readable

ABOUT OUR GYM

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here', making it look like readable English. Many desktop publishing packages and webIt is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here', making it look like readable English. Many desktop publishing packages and web

MORE



Here, he/she could read about the gym or blogs etc.

➤ Package :

OUR PLANS

t is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is tha

BEGINNER PLAN

₹400/month

Unlimited access to the gym

3 classes per week

One Year memberships

FREE drinking package

1 Free personal training

PREMIUM PLAN

₹700/month

access to the gym

3 classes per week

One Year memberships

FREE drinking package

1 Free personal training

ULTIMATE PLAN

₹1000/month

Unlimited access to the gym

3 classes per week

One Year memberships

FREE drinking package

1 Free personal training

SEE MORE

FITCENTO

HOMEABOUT USPACKAGETRAININGCONTACT US

VIEW PLAN

CopyExcelCSVPDF

Search:

Plan Name	Amount	Duration
Beginner Plan	400	1
Premium Plan	700	1
Ultimate Plan	1000	1

Showing 1 to 3 of 3 entries


Previous1Next

Here, he/she could find information about different types of packages the gym has to offer.

➤ Training :


OUR CLASSES

It is a long established fact that a reader will be distracted by the readable




WEIGHTLIFTING

It is a long established fact that a reader will be distracted by the readable



INDOOR CYCLING

It is a long established fact that a reader will be distracted by the readable



CORE POWER

It is a long established fact that a reader will be distracted by the readable

See More

FITCENTO[HOME](#)[ABOUT US](#)[PACKAGE](#)[TRAINING](#)[CONTACT US](#)

OUR CLASSES

CopyExcelCSVPDF

Search:

Plan Name	Session	Duration
Core Power	Evening	2
Indoor Cycling	Morning	1
Weight Lifting	Morning	1

Showing 1 to 3 of 3 entries

Previous1Next

Here, the user can see the different types of classes.

PARTNER UP-DOUBLE POWER

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that

CHOOSE YOUR TRAINER

FITCENTO

HOME

ABOUT US

PACKAGE

TRAINING

CONTACT US



VIEW TRAINER

Copy Excel CSV PDF

Search:

Name	Contact	Email Id	Age	Gender	Address
Rahul	9848948334	rahul@gmail.com	28	male	chaitanyapuri, hyd.

Showing 1 to 1 of 1 entries

Previous

1

Next

The user can also read some information about the trainers in the gym.

➤ Contact Us :

CONTACT US

It is a long established fact that a reader will be distracted by the readable

REQUEST A CALL BACK

Your Name

Email

Phone

Message

Submit



ADDRESS



(+91 *****)

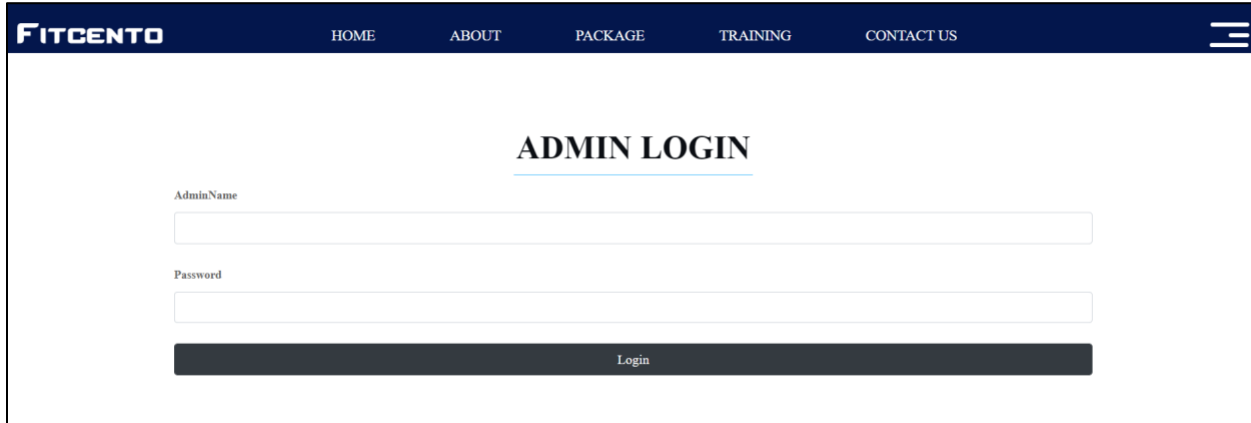


demo@gmail.com

Here , the user gets all information regarding the contact details of the gym including the location of the gym. The user can also send a message to the admin using the form provided if he/she wishes to enquire more about the gym.

❖ Admin's POV:

➤ Login:



The screenshot shows the Admin Login page for FITCENTO. The page has a dark blue header with the FITCENTO logo on the left and navigation links (HOME, ABOUT, PACKAGE, TRAINING, CONTACT US) on the right. A hamburger menu icon is also present. The main content area is white and features the title "ADMIN LOGIN" in bold, underlined text. Below the title are two input fields: "AdminName" and "Password". At the bottom of the form is a dark grey button labeled "Login".

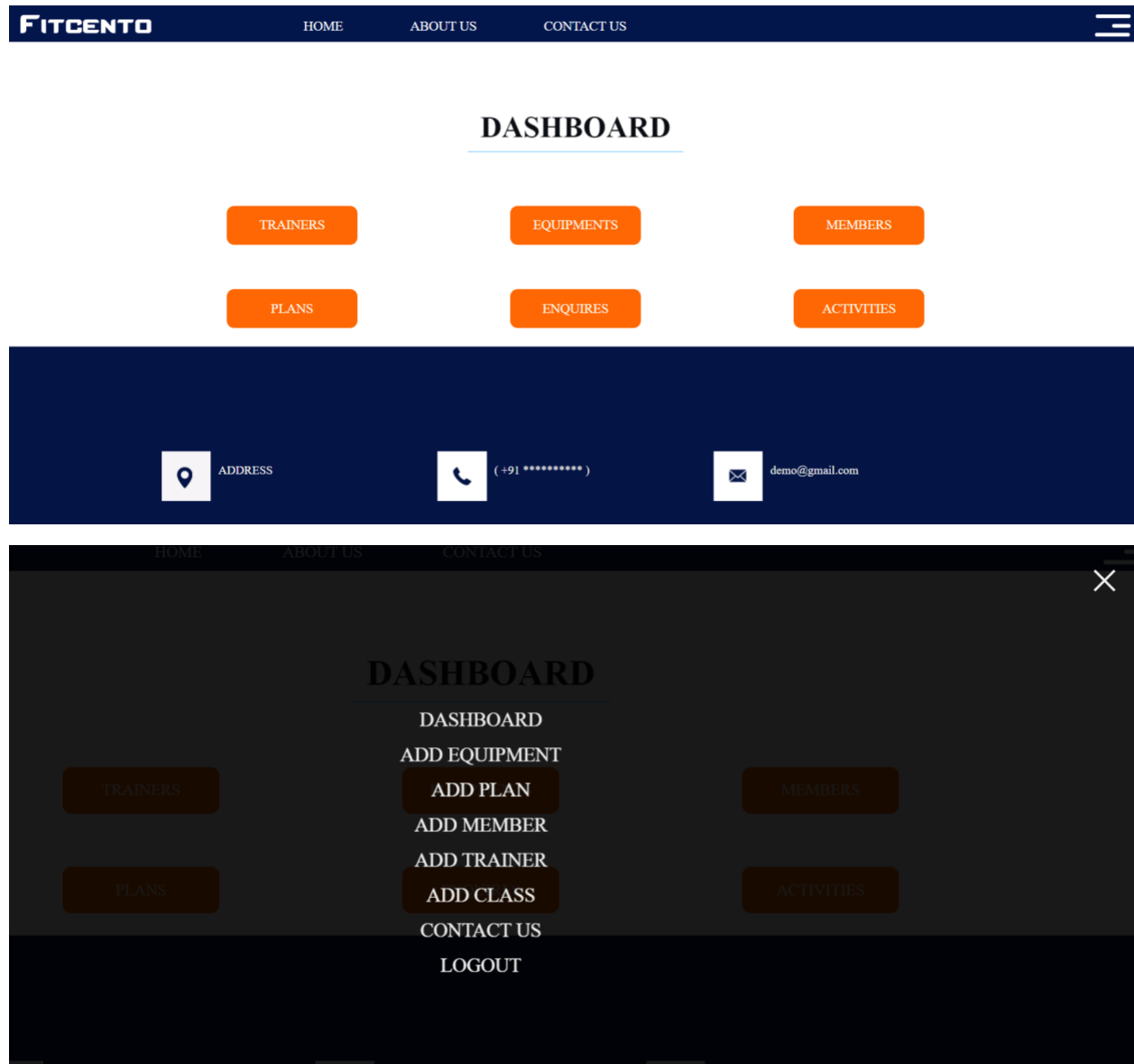
This is the Login Page for the Admin Where he can enter his/her name and password and login into the account.

For this project the login details are:

Admin Name : admin

Password : admin

➤ Dashboard:



This is the Admin's Dashboard with all the features or actions he can perform, like Add/View Gym Equipment, Add/View Gym Plans, Add/View Gym Member, Add/View Gym Trainer or View Enquiries sent by the user etc.,

➤ Manage Equipment :

ADD EQUIPMENT

Equipment Name

Price(In Rs.)

Unit

Purchase Date

mm/dd/yyyy

Description

submit

VIEW EQUIPMENT

CopyExcelCSVPDF

Search:

Equipment Name	Price	Unit	Purchase Date	Description	Remove
Bench	500	5	2021-04-15	benches purchased	Delete
dumbell	2600	4	2021-04-27	arr	Delete
treadmill	150000	2	2021-04-28	sdsfdgr	Delete

Showing 1 to 3 of 3 entries

Previous1Next

These are the add equipment and view equipment pages respectively, which the admin can use to add/ view/delete any equipment.

➤ Manage Plan :

ADD PLAN

Plan Name

Amount(In Rs.)

Duration(In Months)

submit

VIEW PLAN

CopyExcelCSVPDF

Search:

Plan Name	Amount	Duration	Remove
Beginner Plan	400	1	Delete
Premium Plan	700	1	Delete
Ultimate Plan	1000	1	Delete

Showing 1 to 3 of 3 entries

Previous1Next

These are the add plan and view plan pages respectively, which the admin can use to add/ view/delete any plan.

➤ Manage Member:

ADD MEMBER

Name

Contact NO.

Email Id

Age

Gender ☐ Male ☐ Female

Plan Name

Beginner Plan



Join Date

mm/dd/yyyy



Expire Date

mm/dd/yyyy



Initial Amount(In Rs.)

submit

VIEW MEMBER

Copy

Excel

CSV

PDF

Search:

Name	Contact	Email Id	Age	Gender	Plan Name	Join Date	Expire Date	Initial Amount(In Rs.)	Remove
Aakansh	630916784	aakanshagarwal27@gmail.com	19	male	Ultimate Plan	2021-04-30	2022-04-30	1000	Delete

Showing 1 to 1 of 1 entries

Previous

1

Next

In the previous page, are the add member and view member pages respectively, which the admin can use to add/ view/delete any member.

➤ **Manage Trainer :**

ADD TRAINER

Name

Contact NO.

Email Id

Age

Gender ☐ Male ☐ Female

Address

submit

VIEW TRAINER

Copy Excel CSV PDF

Search:

Name	Contact	Email Id	Age	Gender	Address	Remove
Rahul	9848948334	rahul@gmail.com	28	male	chaitanyapuri, hyd.	Delete

Showing 1 to 1 of 1 entries

Previous 1 Next

These are the add trainer and view trainer pages respectively, which the admin can use to add/ view/delete any trainer.

➤ **Manage Classes or Activities :**

ADD CLASS

Classs Name

Session

Duration(In Hrs)

submit

OUR CLASSES

CopyExcelCSVPDF

Search:

Plan Name	Session	Duration	Remove
Core Power	Evening	2	Delete
Indoor Cycling	Morning	1	Delete
Weight Lifting	Morning	1	Delete

Showing 1 to 3 of 3 entries

Previous1Next

These are the add class and view class pages respectively, which the admin can use to add/ view/delete any class/activity that takes place at the gym.

➤ Manage Enquiry:

ENQUIRY				
Copy	Excel	CSV	PDF	Search: <input type="text"/>
Name	Email Id	Phone	Message	Remove
Aakash	sdd@gmail.com	2	weed	Delete
Showing 1 to 1 of 1 entries				Previous 1 Next

This is the view enquiry page where the admin can view/delete all the enquiries sent by the user through the “Contact Us” page.

Work Flow :

As we started our project late and ours was a very small team we decided not to work on a new project but to work on a familiar project

hence, we chose gym management system.

We submitted our topic on 8 February.

Then we gave our ppt between 10-12 February, where we presented our idea, the modules of the project and the technology we will be using.

13-18 February we discussed about our project like work division where we decided that Aniruddh will work majorly on the frontend part of the project as he already knew about HTML and CSS and Aakash will work on the backend part.

20 - February we begin our project

We first decided to make all the templates so that later Aniruddh could give CSS to them and Aakash could work on the backend part

so, from 20 February - 13 March we made all our templates.

13 march - 10 April we didn't get to work on the project due to personnel reasons, the progress was very low

(Aniruddh's reason - he was busy with his house shifting and couldn't work until 28 march.

Aakash's reason - he and most of his family members were affected with corona, 10 out of 15 members from his family were covid positive were 3 of the members were hospitalized.

Both of us had informed about our situations to Uma mam)

10 -23 April Aniruddh worked on the frontend part and Aakash worked on the backend.

23- 26 April we tested our project and we finished our project.

Conclusion :

The “GYM MANAGEMENT SYSTEM” is successfully designed and developed to fulfilling the necessary requirements, the system is very much user friendly, burden of manual work is reduced, the system results in quick retrieval of information that is very vital for the progress any organization. Cost is minimized in case of stationary.

The new computerized system was found to be much faster and reliable and user friendly than the existing system, the system has been designed and developed step by step and tested successfully. It eliminates the human error that are likely to creep in the kind of working in which a bulk quantity of data and calculations as to be processed.

THANK YOU