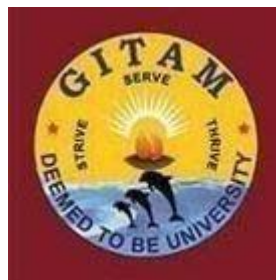# ZYMX - GYM MEMBERSHIP MANAGEMENT SYSTEM

A Project Report submitted in partial fulfillment of the requirements for the award of marks in **Database Management System Laboratory**
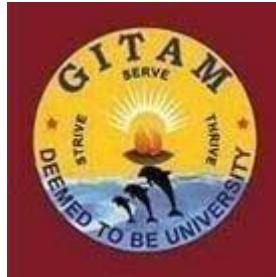
IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by
B10 BATCH-12

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
GITAM INSTITUTE OF TECHNOLOGY
GITAM (DEEMED TO BE
UNIVERSITY) VISAKHAPATNAM

DECEMBER 2020

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
GITAM INSTITUTE OF TECHNOLOGY
## GITAM (DEEMED TO BE UNIVERSITY)
VISAKHAPATNAM

DECLARATION

I, hereby declare that the project report entitled "ZYMX - GYM MEMBERSHIP MANAGEMENT SYSTEM" is an original work done by the team members and provide this opportunity by the Department of Computer Science and Engineering, GITAM Institute of Technology, GITAM (Deemed to be University), Visakhapatnam submitted in partial fulfillment of the requirements for the award of marks in Database Management System Laboratory in Computer Science and Engineering. The work has not been submitted to any other college or University for the award of any degree or diploma.

NAME	REGISTRATION NUMBER
AADARSH KUMAR SINGH	121810310001
D SAI HARSHITH	121810310029
V SAI BHAVANA	121810310041
S ANUHYA	121810310030

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
GITAM INSTITUTE OF TECHNOLOGY
GITAM (DEEMED TO BE UNIVERSITY)
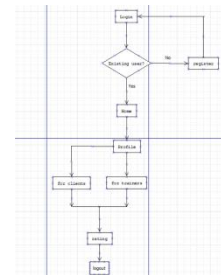**VISAKHAPATNAM**
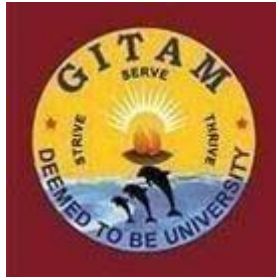
CERTIFICATE

This is to certify that the project report entitled "**ZYMX - GYM MEMBERSHIP MANAGEMENT SYSTEM**" is a Bonafide record of work carried out by "B10 BATCH-12**"** submitted in partial fulfillment of requirement for the award of mark in Database Management System Laboratory in Computer Science and Engineering.

TABLE OF CONTENTS

<u>ABSTRACT</u>

This project "ZYMX - GYM MEMBERSHIP MANAGEMENT SYSTEM" is solution for fitness centres to manage the customers in an easier, advanced and more convenient way. The administrator is able to view all the members of the fitness centre as well as their details. This project was developed using CSS3, HTML5, PHP, MYSQL and was hosted locally using XAMPP local server .This project is a computer-based program and it manages the gym members and their personal information. This system also maintains the client details, to provide the valuable reports regarding the progress of the gym member. Also, An ER Diagram is presented to show the flow, entities and attributes associated with the system. The frontend and backend is explained using snaps of the web page and database.

INTRODUCTION

AS MODERNIZING IS TAKING OVER ALL THE SYSTEMS AND DIGITALIZATION HELPS THEM IMPROVE IN SO MANY PARTICULAR WAYS. THE ZYMX IS ONE OF THE SYSTEMS WHICH HELPS THE ADMINISTRATION IN SPEEDING UP THE TASKS.

THIS IS A BASIC MINI PROJECT WHERE A PERSON INTERESTED IN HEALTH AND FITNESS CAN CREATE AN ACCOUNT ON ZYMX WEBSITE AND THE CLIENT CAN VISIT THE MAIN PAGE, ALSO THEY CAN CREATE THEIR PROFILE IN THE PROFILE SECTION OF WEBSITE , WHICH WILL BE STORED IN BACKEND DATABASE IN A DEDICATED TABLE.

THE ZYMX DATABASE CONTAINS 2 TABLES NAMED:

1. LOGIN.

2. PROFILE.

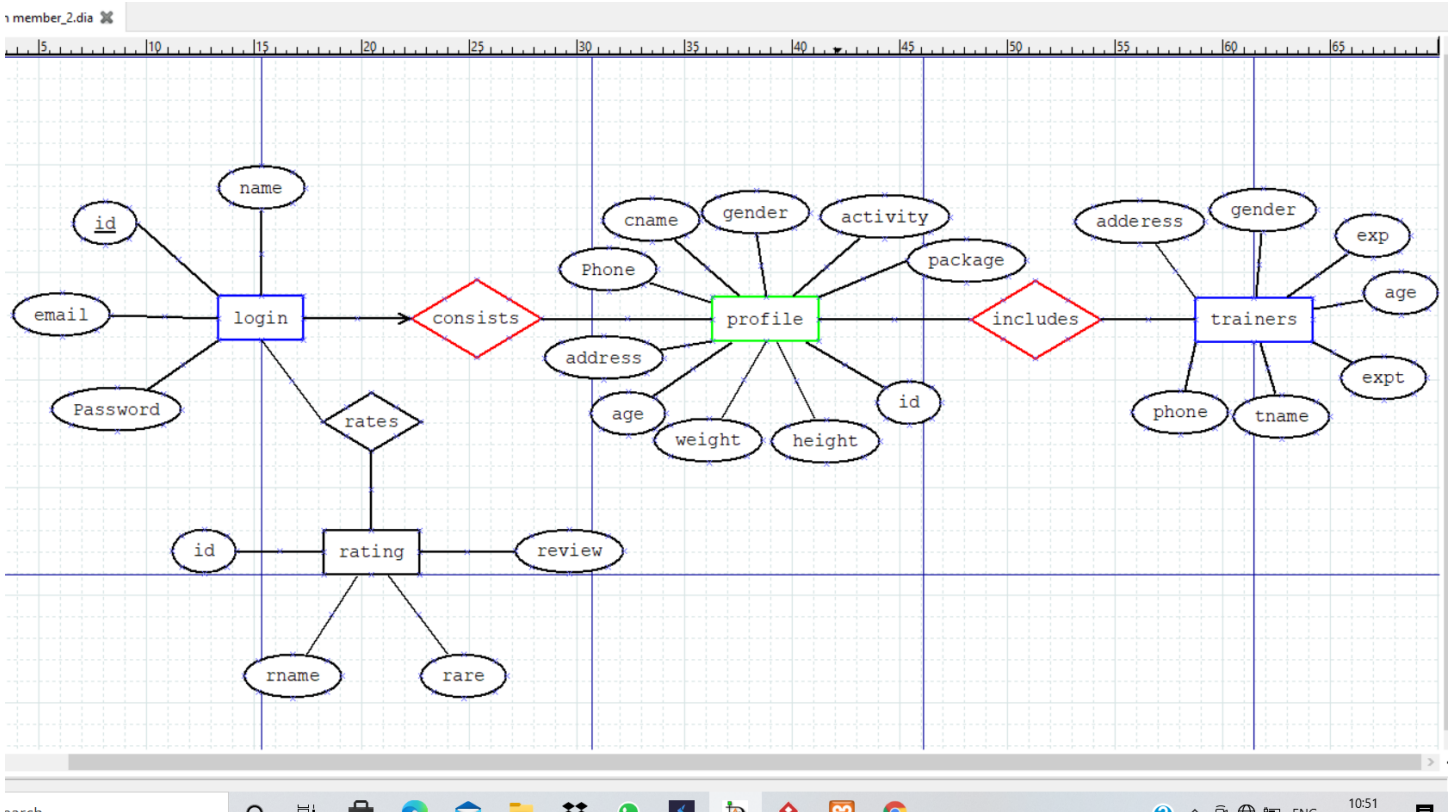LOGIN TABLE IS USED FOR BOTH USER LOGIN AND USER REGISTRATION,

LOGIN TABLE CONSISTS OF:

1. ID

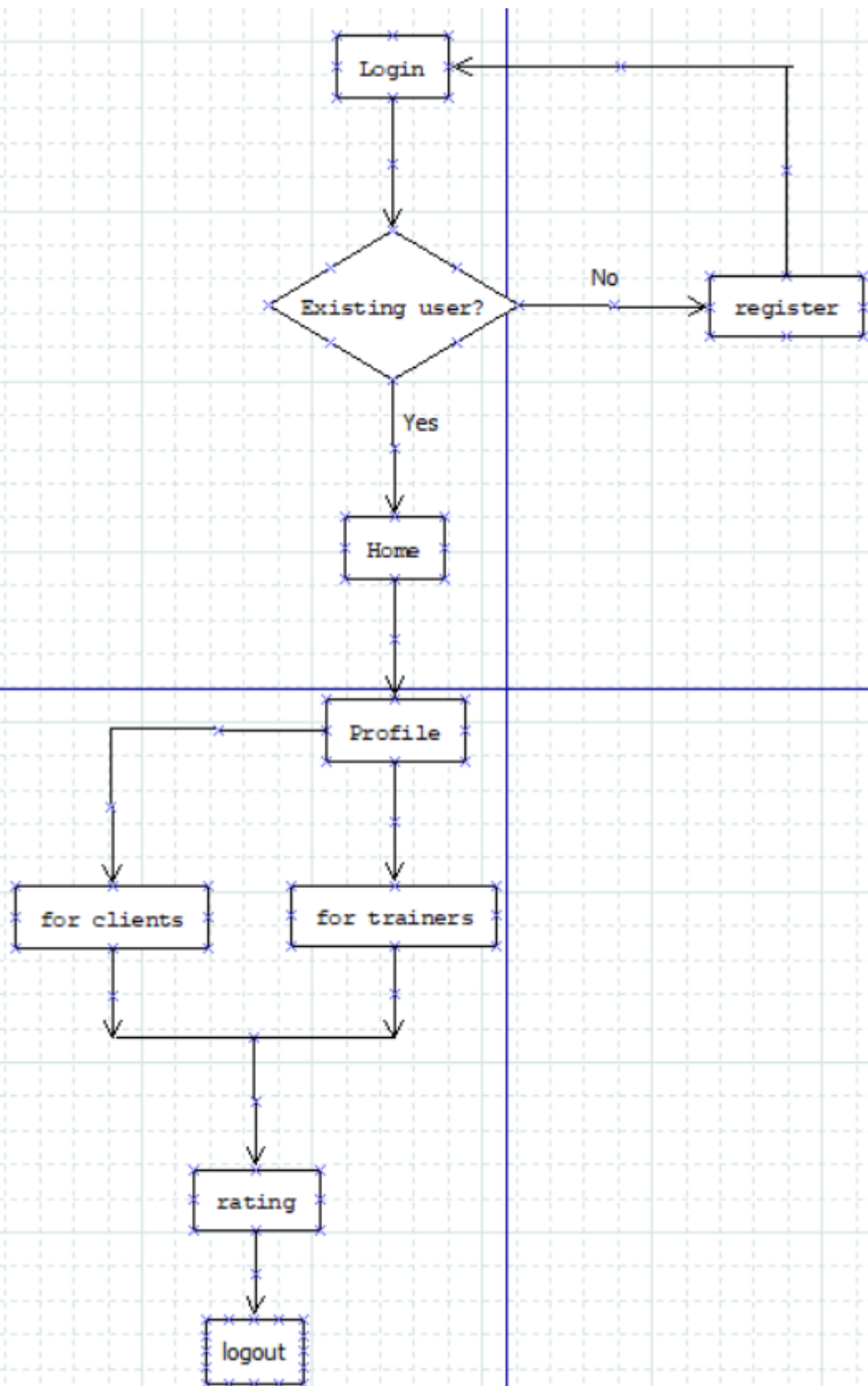2. USERNAME.

3. PASSWORD.

4. EMAIL.

PROFILE TABLE CONSISTS OF:

1. NAME.

2. AGE.

3. GENDER.

4. WEIGHT.

5. HEIGHT.

6. PHONE_NUMBER.

7. ADDRESS.

8. TRAINERS.

9. ACTIVITY.

ER DIAGRAM

The ER Diagram consists of four entities "login", "rating", "trainers" and "profile". All the entities have different attributes. Id is the primary key of login table.

FLOW CHART OF THE SYSTEM :

RELATIONAL DATABASE

The tables created in this project are located in zymx database.

When a client logs into the system, the system will check if that client is already registered or not by checking the registration number and password entered by the client match any of the values of the login table or not. If it matches, the client is then redirected to the home page.

When a person registers for the first time in the portal, his/her credentials are stored in the login table.

			id	cname	age	gender	height	weight	activity	Phone	address
☐	Edit Copy Delete		1	Aadarsh	20	Male	177	88	Moderate	7894561230	Gajuwaka
☐	Edit Copy Delete		2	Akash	26	Male	170	79	Light	7534218596	NAD
☐	Edit Copy Delete		3	Aman	25	Male	177	85	Vigorous	4564564567	Vizag
☐	Edit Copy Delete		4	Harshit	20	Male	180	80	Moderate	4125896321	Steel plant
☐	Edit Copy Delete		5	Neha	25	Female	162	45	Light	4561238955	Scindia
☐	Edit Copy Delete		6	Priya	24	Female	170	60	Vigorous	5533553556	Srinagar
☐	Edit Copy Delete		7	Akshay	22	Male	155	50	Light	4196325855	Siripuram
☐	Edit Copy Delete		8	Ria	34	Other	180	92	Moderate	5335896214	NAD

When the client enters the home portal by entering the correct credentials, there is a 'profile' button on the top right corner of the screen in the navigation bar. On clicking that button, the client will be redirected to another page in which there will be a form in which the client can enter his details like age, gender, phone, address and some physical measures, which will be stored in the 'profile' table in the database.

+ Options

tname	age	gender	exp	expt	Phone	address
akshay	30	Male	1-2 years	Cardio	9696969696	Srinagar
neha	28	Female	1-2 years	yoga	8522588525	Srinagar
rohan	29	Male	1-2 years	Cardio	7457457452	Srinagar

	Show all		Number of rows:	25 ∨		Filter rows:	Search this table

In trainers table, if a person wants to work at gym club as a trainer. He/She can enroll herself as trainer on the webiste and their data will be stored in the table for further process of enrollment.

+ Options

| ←T→		▼	id	rname	rate	review
☐	🖉 Edit ⬄ Copy ⊖ Delete		1	akshay	4	Good
☐	🖉 Edit ⬄ Copy ⊖ Delete		2	rohan	4	Good
☐	🖉 Edit ⬄ Copy ⊖ Delete		3	neha	5	great
☐	🖉 Edit ⬄ Copy ⊖ Delete		4	aman	3	average
☐	🖉 Edit ⬄ Copy ⊖ Delete		5	rahul	5	good
☐	🖉 Edit ⬄ Copy ⊖ Delete		6	rakesh	5	good

↑ ☐ Check all   With selected: 🖉 Edit   ⬄ Copy   ⊖ Delete   🖳 Export

In rating table, the user either client or trainer can provide their feedback in the form of ratings and reviews about the gym and the portal too, which will be useful for future developments.

FRONTEND

1. LOGIN PAGE

In the login page, a pre-existing client will enter his username and password and if it matches with the values in the login table, then he will be redirected to the home page.
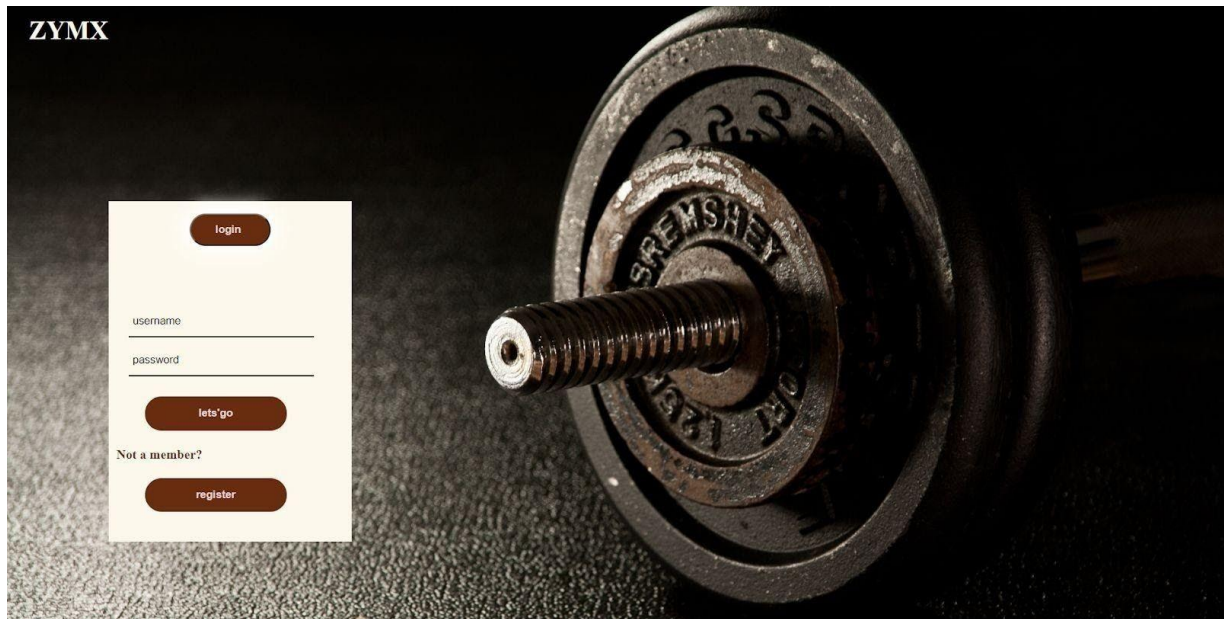
2. REGISTRATION PAGE

If a new person visits the login page, he has to click on the 'register' button which will redirect the person to the registration page, where he/she can enter the required details like name, email and password which will be then stored in the login table upon clicking 'submit' button.

3. HOME PAGE

This is the main page of the ZYMX website, in this page there are 4 sections. In the first section gym name has been displayed and at top navigation bar is placed.

Next section, the details of the trainers who work at ZYMX are displayed for clients.

Trainers

R K Pandey

Age: 27

Expertise: cross fitness and strength training

Experience: 2 years

Accomplishment: Mr. India 1994.
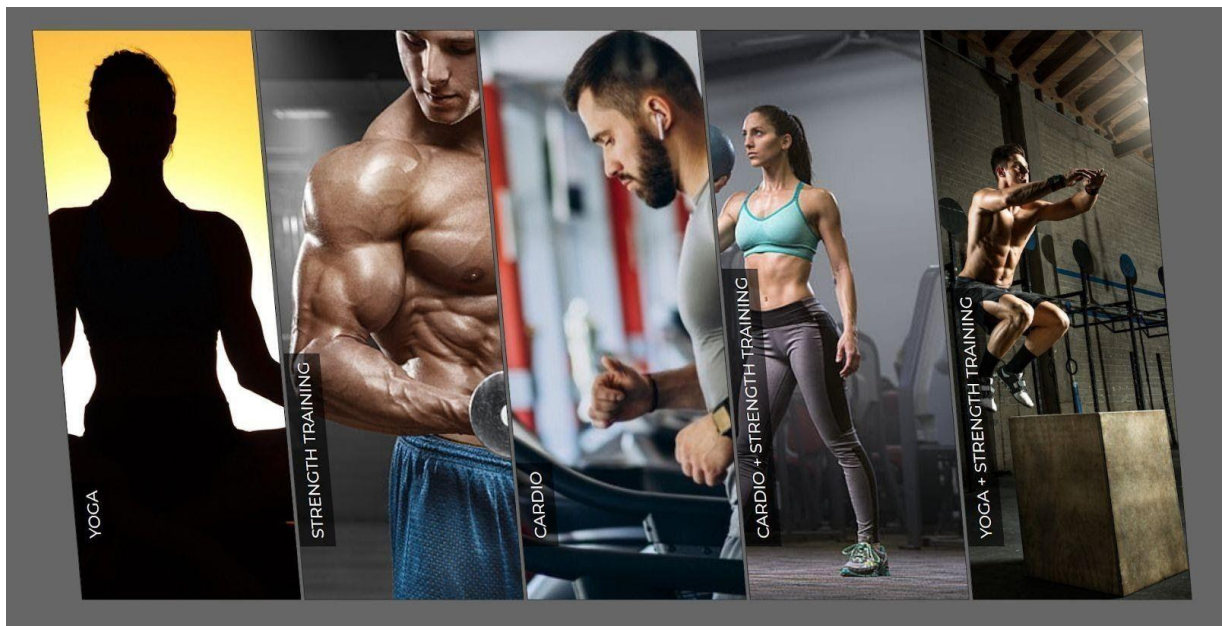
Ritika Saxena

Age: 30

Expertise: Yoga

Experience: 4 years

Accomplishment: Ently best yoga instructor 2000.

Then, below this there will be a packages section where all the various packages offered by ZYMX is displayed for clients.

Then, we have placed a contact section where the clients can use the 'message me' button to send us a mail regarding their reviews, feedback, brochure request and other queries. Also, below that we have mentioned our social handles which can be viewed by clicking on the icons and a website copyright is mentioned.

Want to know more ?

All your queries and reviews are welcomed.

✉ CONTACT US

© ZYMX 2020.
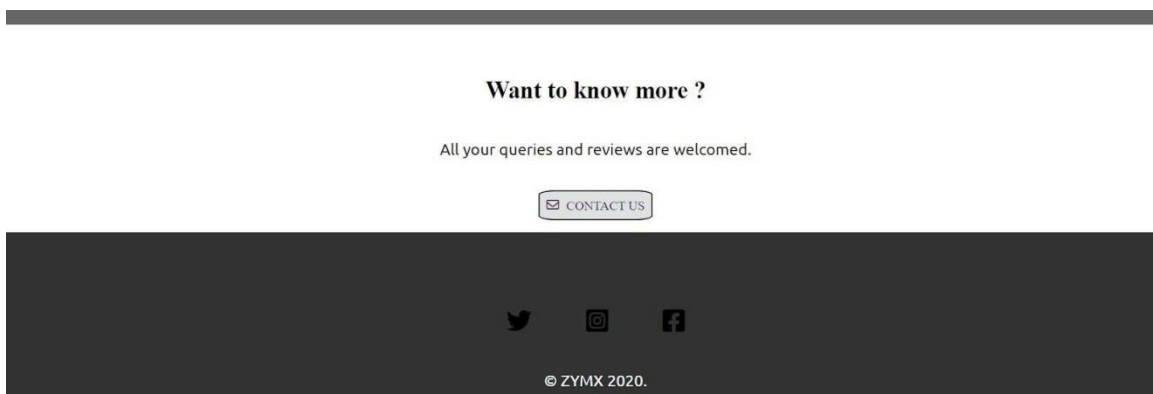
4. PROFILE PAGE

In this page, we have created a form where the logged in client and trainer can enter his details whichsoever asked in the form and also give their feedback and click the 'submit' button so the data will be stored in the profile table zymx database.

Enrollment for Trainers

Name:

Age:

Gender:

--Select--

Experience

Less than 1 year

Expertise:

Phone:

Rate Us

Name:

Rating(0 LOW - 5 HIGH):

--Select--

Feedback:

Submit

BACKEND

1. **LOGIN TABLE CONNECTION**
   The login page is connected to the login table using PHP. The connection code of the login page is attached here.

   Php code:
```php
<?php
if(isset($_POST['submit2']))
{
        $conn = mysqli_connect("localhost","root","","hello");
        header('location: register.php');
}
$invalid = '';

if(isset($_POST['login'])) {
        if (empty($_POST['name']) || empty($_POST['password']))
        {
                $invalid = "incorrect";
        }
        else{

                $name = $_POST['name'];
                $password= $_POST['password'];

                $conn = mysqli_connect("localhost","root","","zymx");

                $query1 = mysqli_query($conn , "SELECT * FROM
login WHERE name='$name' AND password='$password'");
                $rows = mysqli_num_rows($query1);

                if ($rows == 1) {
                        echo "login successful";
                        header('location:
                        home.html');
                }
                mysqli_close($conn);
        }}?>
```

2. REGISTRATION TABLE CONNECTION

The Registration page is connected to the login table using PHP.
The connection code of the login page is attached here.

Php code:

```php
<?php

$invalid = '';
if(isset($_POST['submit'])) {
        if (empty($_POST['name']) || empty($_POST['password']))
        {
                $invalid = "incorrect";
        }

        else{

                $name = $_POST['name'];
                $email = $_POST['email'];
                $password = $_POST['password'];
                $conn = mysqli_connect("localhost","root","","zymx");
                $query = mysqli_query($conn , "INSERT INTO login
(name, email, password)
                        VALUES('$name', '$email', '$password')");

                                if ($query === TRUE) {
                                echo "inserted
                                successfully";
                                header('locatio
        }                       n: login.php');
        else {

        }
                                echo "error";
        mysqli_close($conn);

        }
}

 ?>
```

3. PROFILE TABLE CONNECTION

The Profile page is connected to the profile table using PHP. The connection code of the login page is attached here.

Php code:

```php
<?php

  $cname = $_POST['cname'];
  $age = $_POST['age'];
  $gender = $_POST['gender'];
  $height = $_POST['height'];
  $weight = $_POST['weight'];
  $activity = $_POST['activity'];
  $Phone = $_POST['Phone'];
  $address = $_POST['address'];


  $conn = new mysqli('localhost',
  'root','','zymx'); if($conn->connect_error){
  die('connection failed :'.$connect_error);
  }else{
                $stmt    =    $conn->prepare("insert
into
profile(cname,age,gender,height,weight,activity,Phone,address)

values('$cname','$age','$gender','$height','$weight','$activity','$Phone','$address')");
    $stmt->execute();
    echo "Registered!";
    header('location: home.html');

    $stmt->close();
    $conn->close();
  }

  ?
```

LOGIN, PROFILE, TRAINERS & RATING TABLE:

			id	cname	age	gender	height	weight	activity	Phone	address
☐	Edit	Copy	Delete	1	Aadarsh	20	Male	177	88	Moderate	2147483647	gajuwaka
☐	Edit	Copy	Delete	2	Harshith	20	Male	179	64	Moderate	7032815384	gajuwaka
☐	Edit	Copy	Delete	3	Maxwell	35	Male	169	68	Vigorous	986652134	NAD

			id	name	email	password
☐	Edit	Copy	Delete	1	Aadarsh	Aadarsh@gmail.com	Aadarsh
☐	Edit	Copy	Delete	2	Harshith	xyz@gmail.com	hello123
☐	Edit	Copy	Delete	3	Maxwell	Max@gmail.com	maxwell

+ Options

tname	age	gender	exp	expt	Phone	address
akshay	30	Male	1-2 years	Cardio	9696969696	Srinagar
neha	28	Female	1-2 years	yoga	8522588525	Srinagar
rohan	29	Male	1-2 years	Cardio	7457457452	Srinagar

☐ Show all | Number of rows: 25 ▾ | Filter rows: Search this table

+ Options

			id	rname	rate	review
☐	Edit	Copy	Delete	1	akshay	4	Good
☐	Edit	Copy	Delete	2	rohan	4	Good
☐	Edit	Copy	Delete	3	neha	5	great
☐	Edit	Copy	Delete	4	aman	3	average
☐	Edit	Copy	Delete	5	rahul	5	good
☐	Edit	Copy	Delete	6	rakesh	5	good

☐ Check all   With selected: Edit   Copy   Delete   Export

SOME SQL QUERIES ON LOGIN,PROFILE,TRAINERS AND RATING TABLES:

1. SQL QUERY WHOSE NAME IS STARTING WITH 'A':

```
SELECT * FROM `profile` WHERE cname LIKE 'A%'
```

	id	cname	age	gender	height	weight	activity	Phone	address
Edit Copy Delete	1	Aadarsh	20	Male	177	88	Moderate	2147483647	gajuwaka

2. SQL QUERY FOR FINDING OUT THE SUM OF WEIGHT:

```
SELECT SUM(weight) FROM `profile`
```

Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

SUM(weight)
220

3. SQL QUERY FIND OUT WEIGHT GREATER THAN 65:

```
SELECT * FROM `profile` WHERE weight>65
```

			id	cname	age	gender	height	weight	activity	Phone	address
☐ 🖉 Edit 📋 Copy ⊝ Delete			1	Aadarsh	20	Male	177	88	Moderate	2147483647	gajuwaka
☐ 🖉 Edit 📋 Copy ⊝ Delete			3	Maxwell	35	Male	169	68	Vigorous	986652134	NAD

↑ ☐ Check all   With selected: 🖉 Edit   📋 Copy   ⊝ Delete   🖳 Export

4. SQL QUERY TO FIND OUT WHOSE ADDRESS IS GAJUWAKA:

```
SELECT * FROM `profile` WHERE address='gajuwaka'
```

			id	cname	age	gender	height	weight	activity	Phone	address
☐ 🖉 Edit 📋 Copy ⊝ Delete			1	Aadarsh	20	Male	177	88	Moderate	2147483647	gajuwaka
☐ 🖉 Edit 📋 Copy ⊝ Delete			2	Harshith	20	Male	179	64	Moderate	7032815384	gajuwaka

↑ ☐ Check all   With selected: 🖉 Edit   📋 Copy   ⊝ Delete   🖳 Export

5.
AVERAGE OF AGE

```
SELECT AVG(age) FROM `profile`
```

AVG(age)
25.0000

6 NAME FROM TABLE WHOSE NAME IS ENDING WITH L

```
SELECT cname FROM `profile` WHERE cname LIKE '%l'
```

	cname
☐ 🖉 Edit 📋 Copy ⊝ Delete	Maxwell

7 NAME FROM TABLE WHOSE 3RD LETTER IS R

```sql
SELECT cname FROM `profile` WHERE cname LIKE '__r%'
```

☐ Show all | Number of rows: 25 ˅ Filter rows: Search this table

+ Options

←T→

cname
☐ 🖉 Edit ⧉ Copy ⊖ Delete	Harshith

8 TO FIND OUT THE PROFILES WITH SPECIFIC ADDRESS 'NAD'AND 'GAJUWAKA'

```sql
SELECT * FROM `profile` WHERE address IN ('gajuwaka', 'NAD')
```

☐ Show all | Number of rows: 25 ˅ Filter rows: Search this table Sort by key: None ˅

+ Options

←T→

	id	cname	age	gender	height	weight	activity	Phone	address
☐ 🖉 Edit ⧉ Copy ⊖ Delete	1	Aadarsh	20	Male	177	88	Moderate	2147483647	gajuwaka
☐ 🖉 Edit ⧉ Copy ⊖ Delete	2	Harshith	20	Male	179	64	Moderate	7032815384	gajuwaka
☐ 🖉 Edit ⧉ Copy ⊖ Delete	3	Maxwell	35	Male	169	68	Vigorous	986652134	NAD

9 INSERT VALUES INTO TABLE

✔ 1 row inserted.
Inserted row id: 4 (Query took 0.0200 seconds.)

```sql
INSERT INTO `profile`( `cname`, `age`, `gender`, `height`, `weight`, `activity`, `Phone`, `address`) VALUES ('finch', 39, 'Male', 175, 68, 'Vigorous', 986652189, 'delhi')
```

10 SELECT AGE IN BETWEEN 30 AND 35

```sql
SELECT * FROM `profile` WHERE age BETWEEN 30 AND 35
```

☐ Show all | Number of rows: 25 ˅ Filter rows: Search this table

+ Options

←T→

	id	cname	age	gender	height	weight	activity	Phone	address
☐ 🖉 Edit ⧉ Copy ⊖ Delete	3	Maxwell	35	Male	169	68	Vigorous	986652134	NAD

11 UPDATE PHONE NUMBER OF SPECIFIED ONE

✔ 1 row affected. (Query took 0.0115 seconds.)

```sql
UPDATE `profile` SET Phone=6666666666 WHERE address='delhi'
```

12 DELETE ROW WHERE WITH SPECIFIED ADDRESS

✔ 1 row affected. (Query took 0.0355 seconds.)

```sql
DELETE FROM `profile` WHERE address='NAD'
```

13 SELECT MAXIMUM FOR SPECIFIED COLUMN

```sql
SELECT MAX(height) FROM `profile`
```

☐ Show all | Number of rows: 25 ∨   Filter rows: [Search this table]

+ Options

MAX(height)

179

14 ADD NEW COLUMN TO THE SPECIFIED TABLE

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0523 seconds.)

```sql
ALTER TABLE profile ADD trainer varchar(20)
```

15 DROP SPECIFIED COLUMN

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0236 seconds.)

```sql
ALTER TABLE profile DROP trainer
```

16 INSERT VALUES INTO SPECIFIED TABLES

▭ Server: 127.0.0.1 » ▯ Database: zymx » ▦ Table: rating

▤ Browse   ✒ Structure   ▯ SQL   🔍 Search   ➡ Insert   ▥ Export   ▥

Show query box

✔ 1 row inserted. (Query took 0.2604 seconds.)

```sql
INSERT INTO `rating`(`id`, `rname`, `rate`, `review`) VALUES (6,'rakesh',5,'good')
```

17 SELECT RATING 5 FROM RATING TABLE

Show query box

✔ Showing rows 0 - 2 (3 total, Query took 0.0207 seconds.)

```sql
SELECT * FROM `rating` WHERE rate = 5
```

☐ Show all | Number of rows: 25 ∨   Filter rows: [Search this table]   Sort by

+ Options

			id	rname	rate	review
☐	✏ Edit ⬚ Copy	⊖ Delete	3	neha	5	great
☐	✏ Edit ⬚ Copy	⊖ Delete	5	rahul	5	good
☐	✏ Edit ⬚ Copy	⊖ Delete	6	rakesh	5	good

↑ ⌐   ☐ Check all   With selected: ✏ Edit   ⬚ Copy   ⊖ Delete   ▥ Export

18 SELECTING MINIMUM VALUE FROM SPECIFIED COLUMN

✔ Showing rows 0 - 0 (1 total, Query took 0.1277 seconds.)

SELECT MIN(rate) FROM `rating`

☐ Show all | Number of rows: 25 ∨   Filter rows: Search this table

+ Options

MIN(rate)

3

☐ Show all | Number of rows: 25 ∨   Filter rows: Search this table

19 ARRANGE VALUES OF A COLUMN IN ASCENDING ORDER

✔ Showing rows 0 - 2 (3 total, Query took 0.0020 seconds.) [age: **28... - 30...**]

SELECT * FROM `trainers` order by age ASC

☐ Show all | Number of rows: 25 ∨   Filter rows: Search this table

+ Options

tname	age ▲ 1	gender	exp	expt	Phone	address
neha	28	Female	1-2 years	yoga	8522588525	Srinagar
rohan	29	Male	1-2 years	Cardio	7457457452	Srinagar
akshay	30	Male	1-2 years	Cardio	9696969696	Srinagar

☐ Show all | Number of rows: 25 ∨   Filter rows: Search this table

<u>BIBLIOGRAPHY</u>

This project is built from scratch using below mentioned technologies. This project can be further modified and has a wide scope in future.

STRUCTURE AND DESIGN

1. HTML5
2. CSS3

CONNECTING TO THE DATABASE

1. PHP

LOCAL

SERVER

1. XAMPP

SERVER

EDITOR

1. ATOM EDITOR

<u>**R EFERENCES:-**</u>

1. [h ttps://www.w3schools.com/html/](https://www.w3schools.com/html/)
2. [h ttps://www.w3schools.com/css/default.asp](https://www.w3schools.com/css/default.asp)
3. [h ttps://www.w3schools.com/php/default.asp](https://www.w3schools.com/php/default.asp)
4. [h ttps://www.tutorialspoint.com/php/index.htm](https://www.tutorialspoint.com/php/index.htm)
5. [h ttps://youtu.be/ueWpNe0PG34](https://youtu.be/ueWpNe0PG34)