

GYMANAGER

Abstract:

Gym Manager is a gym management system which enables both, the user and instructor to see and manage the respective elements of their gym experience. The admin can view all the entries of the gym. Gym Manager allows the book keeping system of Gym Management to be fully computer based and hence increasing productivity.

Keywords: *mySQL, Web-based, Apache, CSS, HTML, PHP, Management System*

Introduction

Having a Gym Management System allows us to move the book keeping system to a computer. The motivation of having a fully computed system for managing a gym came from the fact that handling membership books in the ever increasing memberships of any Gym is a hectic task.

Hence something that is more easily accessible in today's world is computers. Thus, through our application, the user can register up for one class at a time in the gym and make an online payment for the class. Meanwhile, the Admin gets notified of all the new users and can add or delete new classes. The Admin can also add new instructors and assign them to teach any class.

A Member, on signing up can see the details of his membership and class information, including their instructor(s).

An Instructor can view the customer(s) under him and his personal details such as salary, etc.

Scope

The scope of our project is :

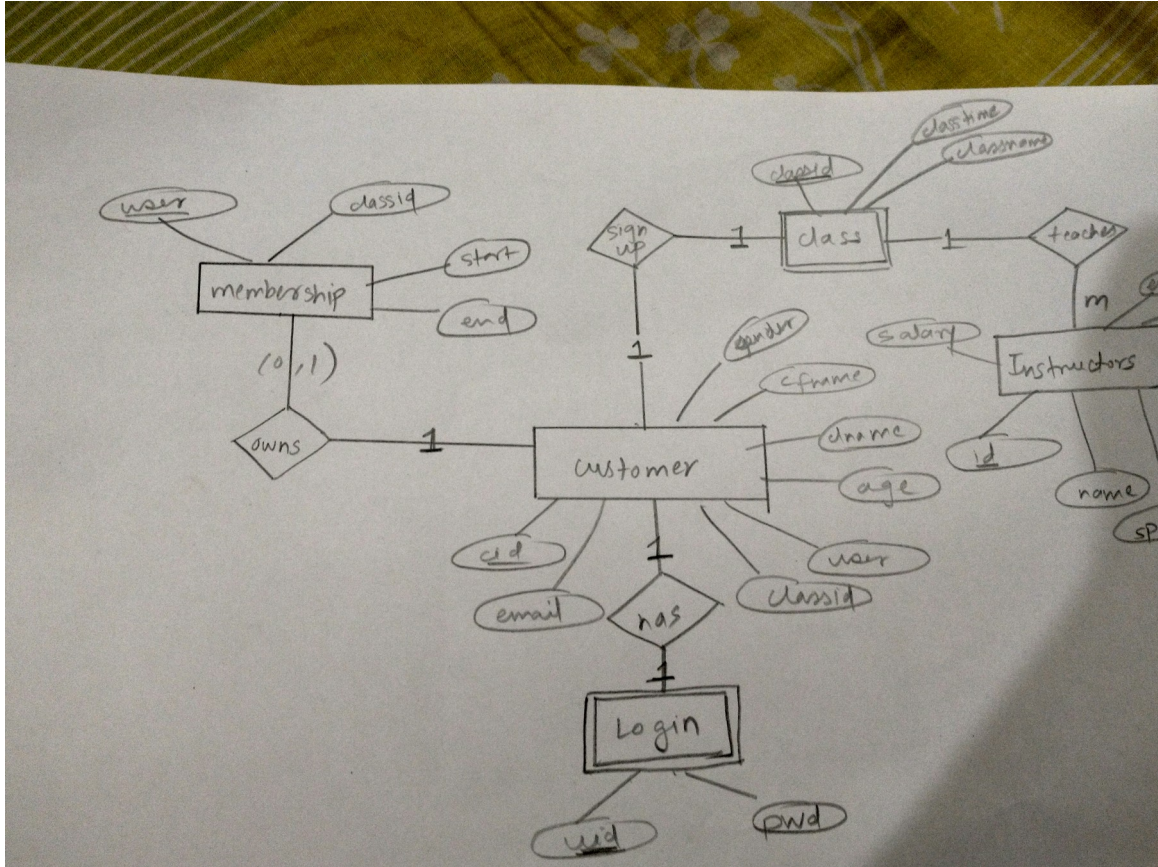
1. Fully functioning management system.
2. Admin can view all the data.
3. Customer can view all relevant data.
4. Instructor can view customer data and their data.
4. Useful for both, big and small gym(s).

Requirements

<i>Hardware</i>	<i>Software</i>
Intel i3 Processor	Any OS 32/64 Bit
Atleast 4GB RAM	LAMP/XAMP/WAMP server installed
500 GB or more ROM	Text Editor

Data Modelling Features

- E-R Diagram :



Relational Database Design

- Tables

+-----+	
Tables_in_gymmanagement	
+-----+	
class	
customer	
instructor	
login	
membership	

- *Description of Tables*

1. class

Field	Type	Null	Key	Default	Extra
classid	varchar(2)	NO	PRI	NULL	
classname	varchar(10)	YES		NULL	
classtime	varchar(40)	NO		NULL	

2. customer

Field	Type	Null	Key	Default	Extra
cid	int(5)	NO	PRI	NULL	auto_increment
cfname	varchar(10)	YES		NULL	
clname	varchar(50)	YES		NULL	
age	varchar(2)	YES		NULL	
gender	varchar(10)	YES		NULL	
email	varchar(50)	YES		NULL	
classid	varchar(2)	YES	MUL	NULL	
user	varchar(50)	NO	UNI	NULL	

3. instructor

Field	Type	Null	Key	Default	Extra
-------	------	------	-----	---------	-------

Database Normalization

3NF normalized

- Customer
- Class

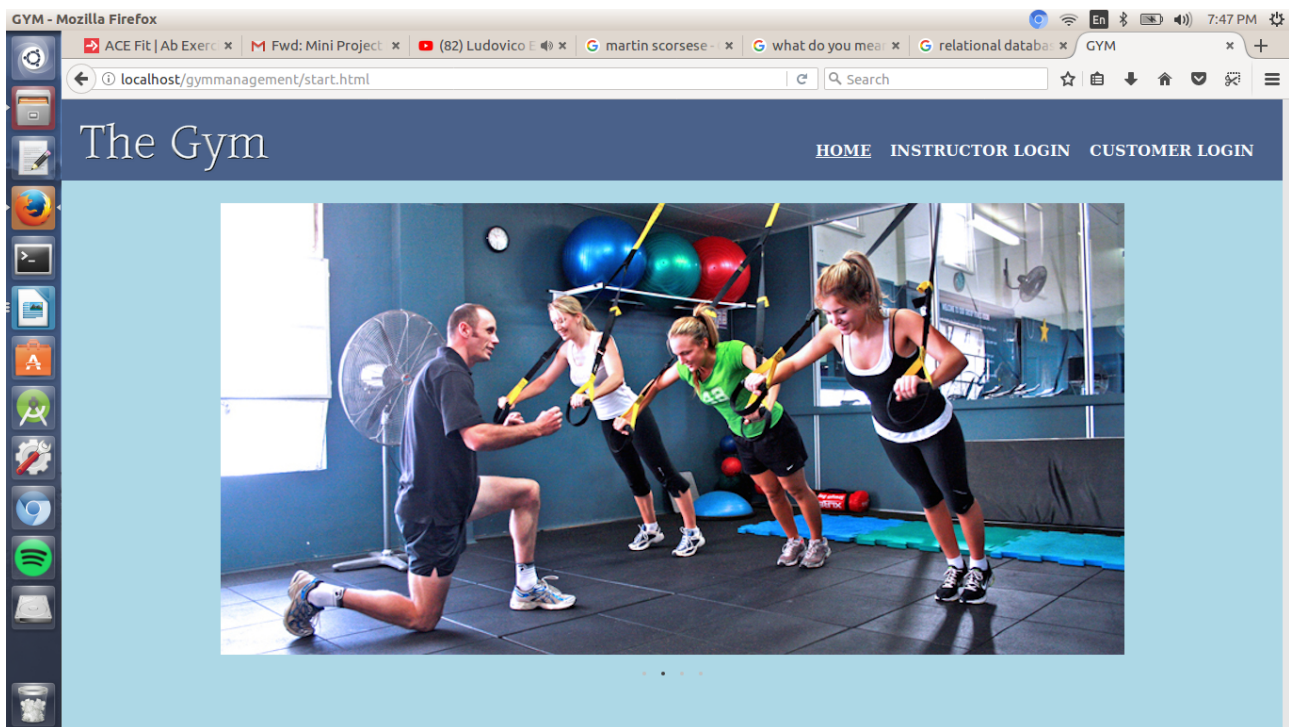
2NF normalized

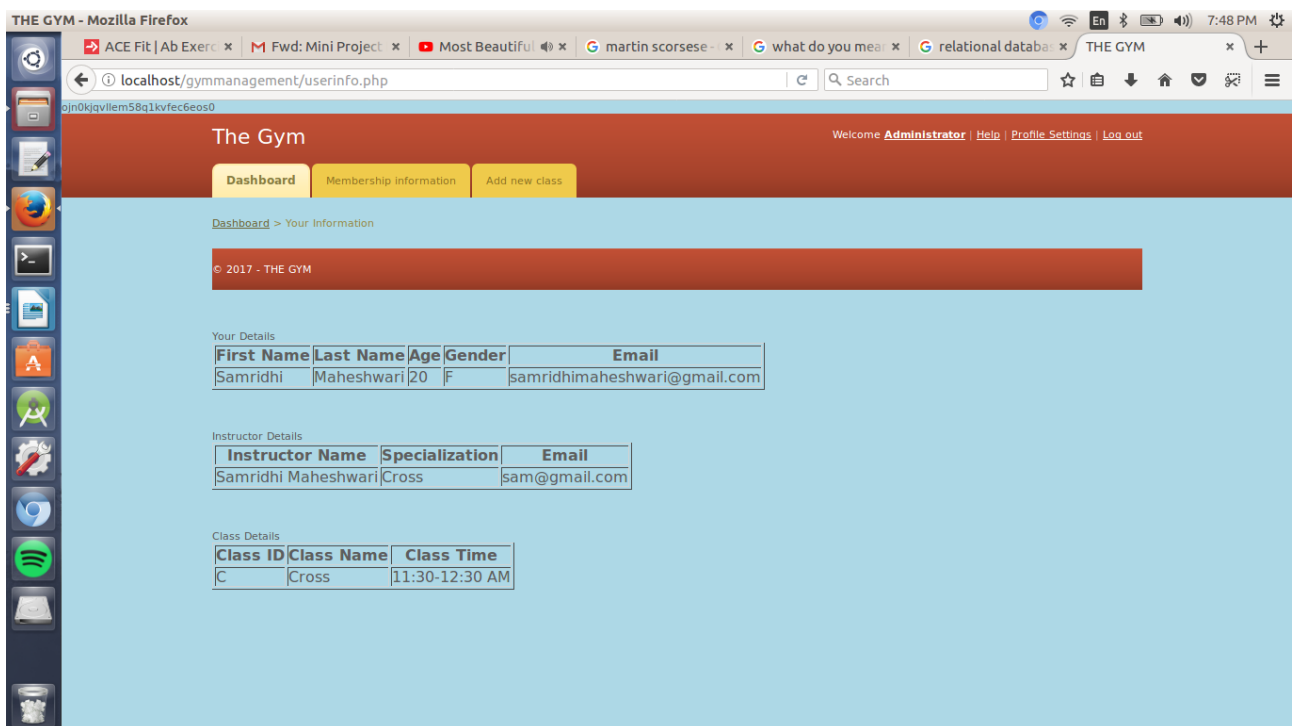
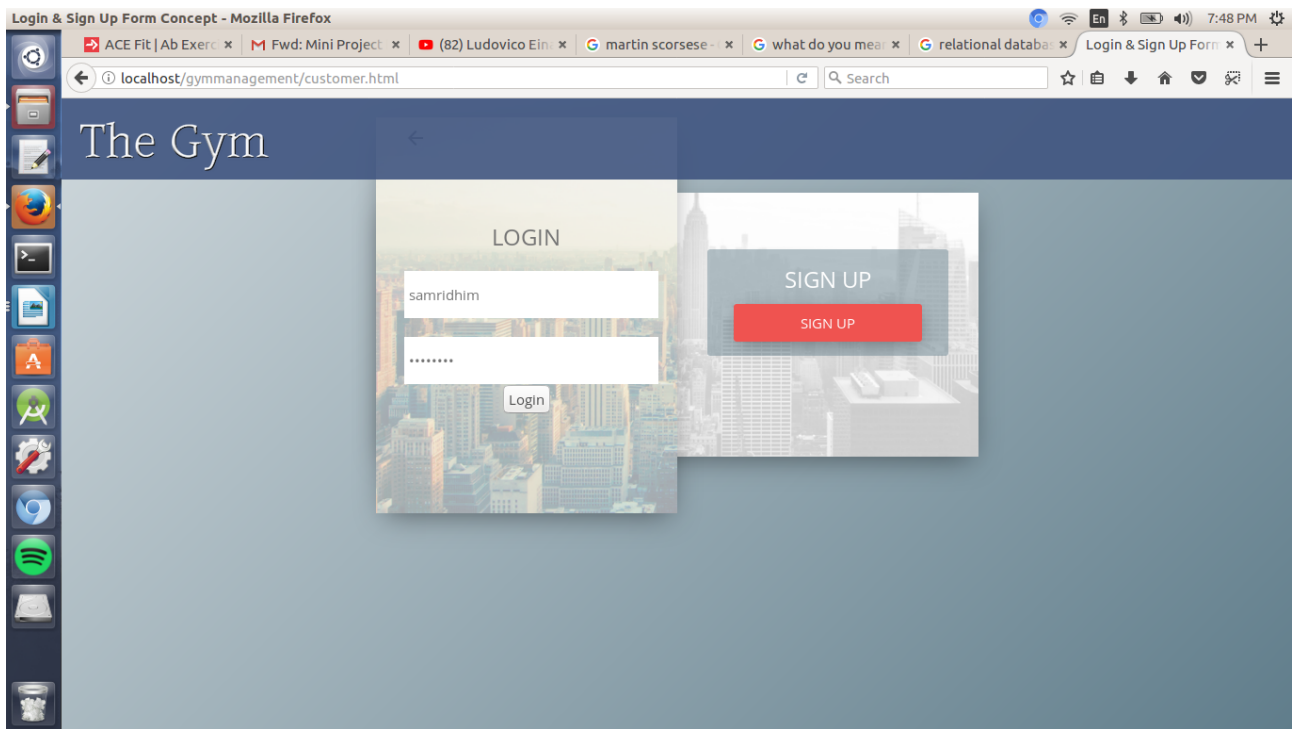
- Instructor

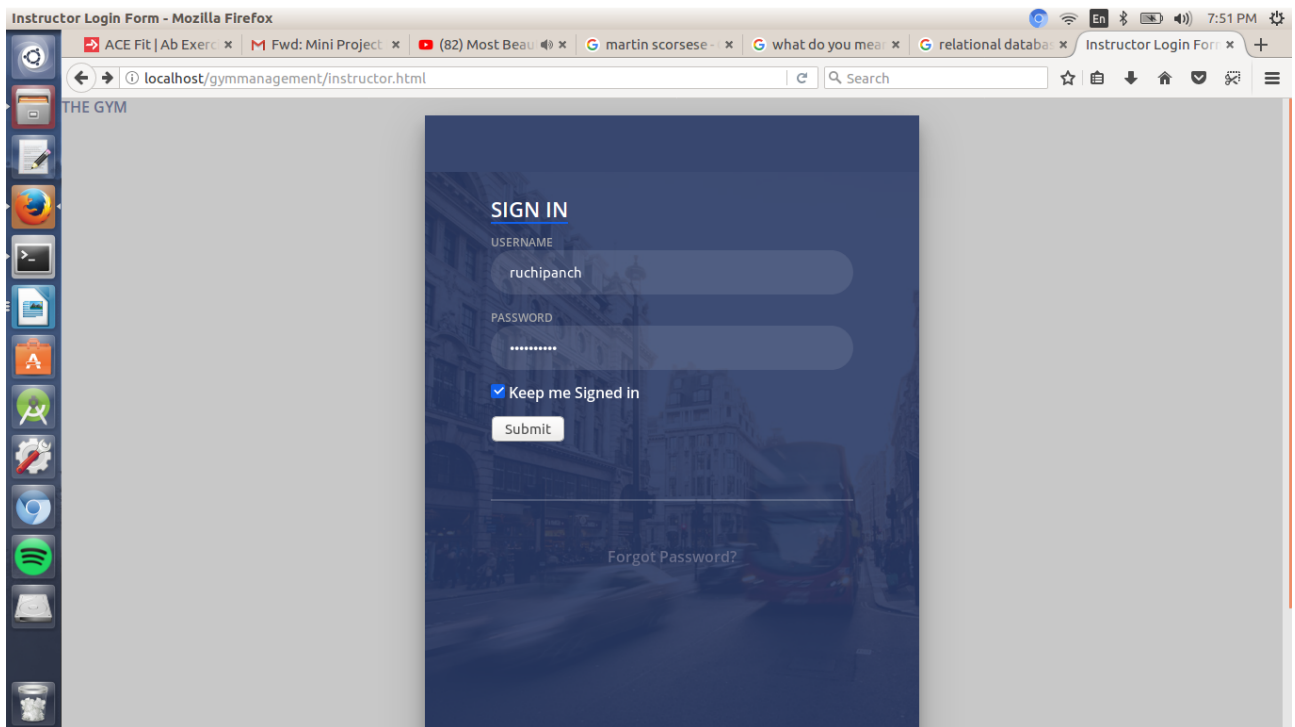
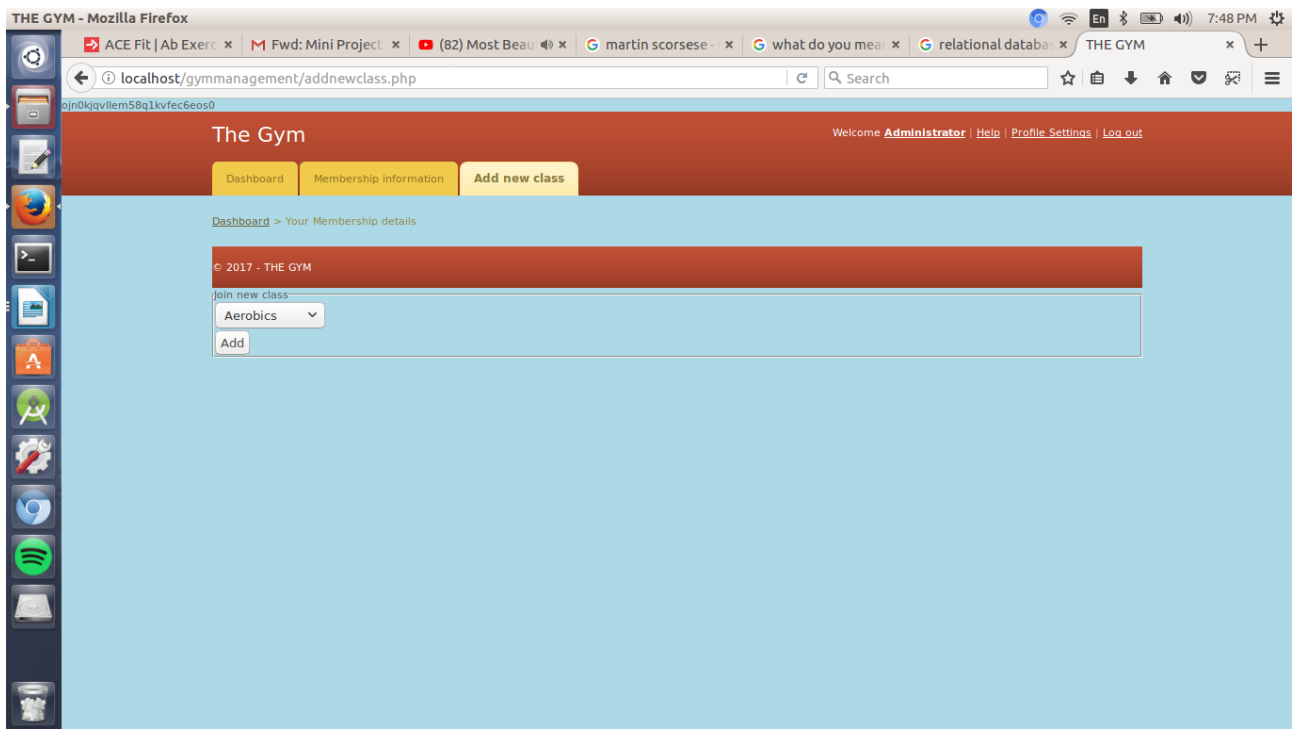
1NF normalized

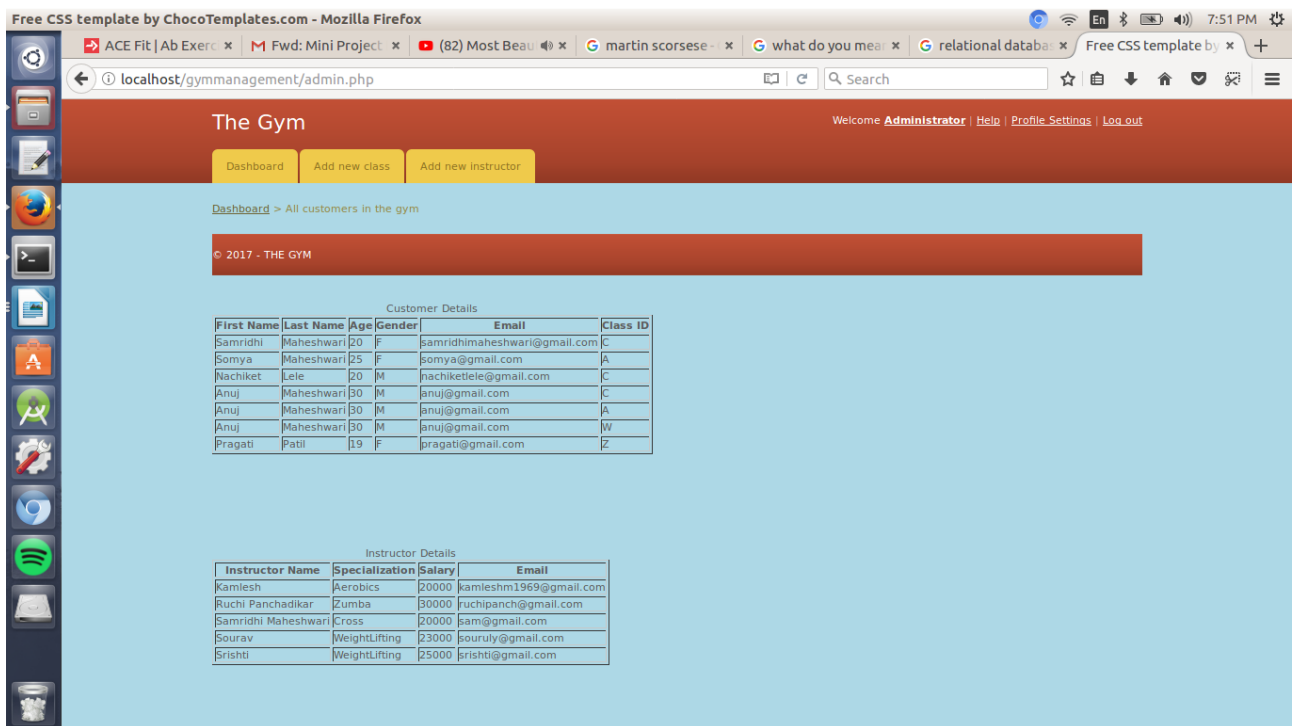
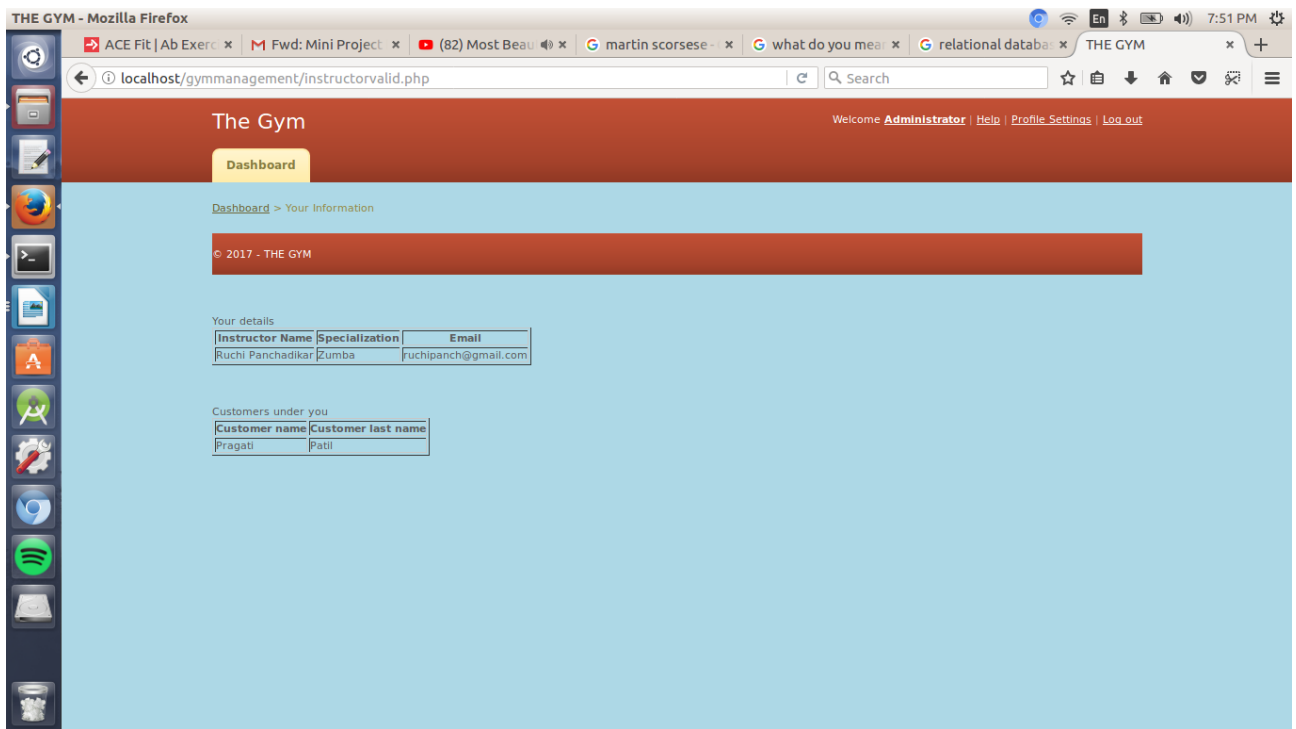
- Membership
- Login

Graphical User Interface









Source Code

- CUSTOMER SIDE

```
<!DOCTYPE html>

<html >

<head>

  <meta charset="UTF-8">

  <title>Login & Sign Up Form Concept</title>


  <link rel='stylesheet prefetch' href='https://fonts.googleapis.com/css?
family=Open+Sans:400,300'>

  <link rel='stylesheet prefetch' href='https://fonts.googleapis.com/icon?family=Material+Icons'>


  <link rel="stylesheet" href="css0/style.css">


</head>

<body>

<header>

  <!--Making logo-->

  <a href="start.html" id="logo"></a>

  <!--making navigation bar-->

  <nav>

    <a href="start.html" id="menu-icon"></a>


  </nav>

</header>
```

<div class="cotn_principal">

<div class="cont_centrar">

<div class="cont_login">

<div class="cont_info_log_sign_up">

<div class="col_md_login">

<div class="cont_ba_opcity">

<h2>LOGIN</h2>

<button class="btn_login" onclick="cambiar_login()">LOGIN</button>

</div>

</div>

<div class="col_md_sign_up">

<div class="cont_ba_opcity">

</form>

<h2>SIGN UP</h2>

<button class="btn_sign_up" onclick="cambiar_sign_up()">SIGN UP</button>

</div>

</div>

</div>

```
<div class="cont_back_info">
```

```
<div class="cont_img_back_grey">
```

```

```

```
</div>
```

```
</div>
```

```
<div class="cont_forms" >
```

```
<div class="cont_img_back_">
```

```

```

```
</div>
```

```
<form id="customerloginform" action="login.php" method="post">
```

```
<div class="cont_form_login">
```

```
<a href="#" onclick="ocular_login_sign_up()" ><i class="material-icons">&#xE5C4;</i></a>
```

```
<h2>LOGIN</h2>
```

```
<input type="text" name="user" placeholder = "Username"/>
```

```
<input type="password" name="pwd" placeholder="Password" />
```

```
<button type="submit" form="customerloginform" value="Submit">Login</button>
```

```
</div>
```

```
</form>
```

```
<form id="customersignupform" action="newuser.php" method="post">
```

```
<div class="cont_form_sign_up">
```

```
<a href="#" onclick="ocular_login_sign_up()"><i class="material-icons">&#xE5C4;</i></a>
```

```
<h2>SIGN UP</h2>
```

```
<input type="text" name="fname" placeholder="First Name" />
<input type="text" name="lname" placeholder="Last Name" />
<input type="text" name="age" placeholder="Age" />
<br>
<br>
<select name="formGender">
  <option value="">Select Gender</option>
  <option value="M">Male</option>
  <option value="F">Female</option>
  <option value="O">Other</option>

</select>
<input type="text" name="email" placeholder="Email" />
<input type="text" name="user" placeholder="User" />
<input type="password" name="pwd" placeholder="Password" />
<br>
<br>
<br>
<button type="submit" form="customersignupform" value="Submit">Submit</button>
</div>

</form>

</div>

</div>
</div>
</div>
```

```
<script src="js/index.js"></script>
```

```
</body>
```

```
</html>
```

1. login.php :

```
<?php
```

```
session_start();
```

```
$db = mysqli_connect('localhost','root','samridhi','gymmanagement')
```

```
    or die('Error connecting to MySQL server.');
```

```
$user=$_POST['user'];
```

```
$pwd=$_POST['pwd'];
```

```
$query="select uid, pwd from login where uid = '$user' and pwd = '$pwd'";
```

```
    mysqli_query($db, $query) or die('Error querying database.');
```

```
$result = $db->query($query);
```

```
    if($result->num_rows>0){
```

```
        $_SESSION['user']= $user;
```

```
        $_SESSION['pwd']= $pwd;
```

```
        header("Location:userinfo.php");
```

```
    }
```

```
?>
```

2. user_info.php

```
<?php
```

```
session_start();
```

```
echo session_id();
```

?>

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
    <meta http-equiv="Content-type" content="text/html; charset=utf-8" />
```

```
    <title>THE GYM</title>
```

```
    <link rel="stylesheet" href="css/style.css" type="text/css" media="all" />
```

```
</head>
```

```
<body>
```

```
<!-- Header -->
```

```
<div id="header">
```

```
    <div class="shell">
```

```
        <!-- Logo + Top Nav -->
```

```
        <div id="top">
```

```
            <h1><a href="#">The Gym</a></h1>
```

```
            <div id="top-navigation">
```

```
                Welcome <a href="#"><strong>Administrator</strong></a>
```

```
                <span>|</span>
```

```
                <a href="#">Help</a>
```

```
                <span>|</span>
```

```
                <a href="#">Profile Settings</a>
```

```
                <span>|</span>
```

```
                <a href="logout.php">Log out</a>
```

```
            </div>
```

```
        </div>
```

```
        <!-- End Logo + Top Nav -->
```

```
        <!-- Main Nav -->
```

```

<div id="navigation">

    <ul>

        <li><a href="userinfo.php"
class="active"><span>Dashboard</span></a></li>

        <li><a href="membershipinfo.php"><span>Membership
information</span></a></li>

        <li><a href="addnewclass.php"><span>Add new class</span></a></li>

    </ul>

</div>

<!-- End Main Nav -->

</div>

</div>

<!-- End Header -->

<!-- Container -->

<div id="container">

    <div class="shell">

        <!-- Small Nav -->

        <div class="small-nav">

            <a href="#">Dashboard</a>

            <span>&gt;</span>

            Your Information

        </div>

        <!-- End Small Nav -->

    </div>

    <!-- Footer -->

    <div id="footer">

        <div class="shell">

            <span class="left">&copy; 2017 - THE GYM</span>

```

```
<span class="right">
```

```
</span>
```

```
</div>
```

```
</div>
```

```
<!-- End Footer -->
```

```
</body>
```

```
</html>
```

```
<?php
```

```
session_start();
```

```
$db = mysqli_connect('localhost','root','samridhi','gymmanagement')
```

```
or die('Error connecting to MySQL server.');
```

```
$user=$_SESSION['user'];
```

```
echo "</br>";
```

```
echo "</br>";
```

```
echo "</br>";
```

```
echo "Your Details";
```

```
echo "<table border='1'>
```

```
<tr>
```

```
<th>First Name</th>
```

```
<th>Last Name</th>
```

```
<th>Age</th>
```

```
<th>Gender</th>
```

```
<th>Email</th>
```



```
</tr>";
```

```
$query="select cfname, cname, age, gender, email, classid from customer where user = '$user'";
```

```
mysql_query($db, $query) or die('Error querying database.');
```

```
$result = $db->query($query);
```

```
if($result->num_rows>0){
```

```
while($row = $result ->fetch_assoc()) {
```

```
    echo "<tr>";
```

```
    echo "<td>" . $row['cfname'] . "</td>".
```

```
    "<td>" . $row['cname'] . "</td>".
```

```
    "<td>" . $row['age'] . "</td>".
```

```
    "<td>" . $row['gender'] . "</td>".
```

```
    "<td>" . $row['email'] . "</td>";
```

```
    }
```

```
}
```

```
echo "</table>";
```

```
echo "</br>";
```

```
echo "</br>";
```

```
echo "</br>";
```

```
echo "Instructor Details";
```

```
echo "<table border='1'>
```

```
<tr>
```

```
<th>Instructor Name</th>
```

```
<th>Specialization</th>
```

```
<th>Email</th>
```

```
</tr>";
```

```
$query="select instructorname, specialization, email from instructor where  
LEFT(specialization,1) = (select classid from membership where user = '$user')";
```

```
mysqli_query($db, $query) or die('Error querying database.');
```

```
$result = $db->query($query);
```

```
if($result->num_rows>0){
```

```
while($row = $result ->fetch_assoc()) {
```

```
    echo "<tr>";
```

```
    echo "<td>" . $row['instructorname'] . "</td>".
```

```
    "<td>" . $row['specialization'] . "</td>".
```

```
    "<td>" . $row['email'] . "</td>";
```

```
    }
```

```
}
```

```
echo "</table>";
```

```
echo "</br>";
```

```
echo "</br>";
```

```
echo "</br>";
```

```
echo "Class Details";
```

```
echo "<table border='1'>
```

```
<tr>
```

```
<th>Class ID</th>
```

```
<th>Class Name</th>
```

```
<th>Class Time</th>
```

```
</tr>";
```

```
$query="select classid,classname,classtime from class where classid = (select classid from membership where user = '$user');";
```

```
mysqli_query($db, $query) or die('Error querying database.');
```

```
$result = $db->query($query);
```

```
if($result->num_rows>0){
```

```
while($row = $result ->fetch_assoc()) {
```

```
    echo "<tr>";
```

```
    echo "<td>" . $row['classid'] . "</td>".
```

```
    "<td>" . $row['classname'] . "</td>".
```

```
    "<td>" . $row['classtime'] . "</td>";
```

```
}
```

```
}
```

```
echo "</table>";
```

```
mysqli_close($db);
```

```
?>
```

3. membershipinfo.php

```
<?php
```

```
session_start();
```

```
$user = $_SESSION['user'];
```

```
$db = mysqli_connect('localhost','root','samridhi','gymmanagement')
```

```
    or die('Error connecting to MySQL server.');
```

```
$user=$_SESSION['user'];
```

```
echo "<table border='1'>
```

```
<tr>
```

```
<th>User Name</th>
```

```
<th>Class ID</th>
```

```
<th>Start</th>
```

```
<th>End</th>
```

```
</tr>";
```

```
$query="select user,classid,start,end from membership where user = '$user'";
```

```
mysql_query($db, $query) or die('Error querying database.');
```

```
$result = $db->query($query);
```

```
if($result->num_rows>0){
```

```
while($row = $result ->fetch_assoc()) {
```

```
    echo "<tr>";
```

```
    echo "<td>" . $row['user'] . "</td>".
```

```
    "<td>" . $row['classid'] . "</td>".
```

```
    "<td>" . $row['start'] . "</td>".
```

```
    "<td>" . $row['end'] . "</td>";
```

```
}
```

```
}
```

```
echo "</table>";
```

```
mysql_close($db);
```

```
?>
```

4. addmembership.php

```
<?php
```

```

session_start();

$user = $_SESSION['user'];

$classid = $_POST['formClass'];

$db = mysqli_connect('localhost','root','samridhi','gymmanagement')
    or die('Error connecting to MySQL server.');
```

\$query="insert into membership(user, classid, start, end) values ('\$user', '\$classid', curdate(), DATE_ADD(curdate(), INTERVAL 90 DAY))";

```

    if(mysqli_query($db, $query)){
        echo "Records added successfully.";

        $query="update customer set classid = '$classid' where user = '$user'";
        if(mysqli_query($db, $query)){
            echo "Records updated successfully.";
        }
    }
    else{

        echo "ERROR: Could not able to add more than one class at a time";

    }

    mysqli_close($db);
?>

<html>

<a href = "userinfo.php"> Click here to go back </a>

```

//INSTRUCTOR SIDE

1. instructor_valid.php

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

    <meta http-equiv="Content-type" content="text/html; charset=utf-8" />

    <title>THE GYM</title>

    <link rel="stylesheet" href="css/style.css" type="text/css" media="all" />

</head>

<body>

<!-- Header -->

<div id="header">

    <div class="shell">

        <!-- Logo + Top Nav -->

        <div id="top">

            <h1><a href="#">The Gym</a></h1>

            <div id="top-navigation">

                Welcome <a href="#"><strong>Administrator</strong></a>

                <span>|</span>

                <a href="#">Help</a>

                <span>|</span>

                <a href="#">Profile Settings</a>

                <span>|</span>

                <a href="logout.php">Log out</a>

            </div>

        </div>

        <!-- End Logo + Top Nav -->
```

```
<!-- Main Nav -->

<div id="navigation">

    <ul>

        <li><a href="userinfo.php"
class="active"><span>Dashboard</span></a></li>

    </ul>

</div>

<!-- End Main Nav -->

</div>

</div>

<!-- End Header -->

<!-- Container -->

<div id="container">

    <div class="shell">

        <!-- Small Nav -->

        <div class="small-nav">

            <a href="#">Dashboard</a>

            <span>&gt;</span>

            Your Information

        </div>

        <!-- End Small Nav -->

    </div>

    <!-- Footer -->

    <div id="footer">

        <div class="shell">

            <span class="left">&copy; 2017 - THE GYM</span>

            <span class="right">
```


</div>

</div>

<!-- End Footer -->

</body>

</html>

<?php

session_start();

\$db = mysqli_connect('localhost','root','samridhi','gymmanagement')

or die('Error connecting to MySQL server.');

\$uid=\$_POST['uid'];

\$pwd=\$_POST['pwd'];

echo "</br>";

echo "</br>";

echo "</br>";

echo "Your details";

echo "<table border='1'>

<tr>

<th>Instructor Name</th>

<th>Specialization</th>

<th>Email</th>


```
</tr>";
```

```
$query="select instructorname, specialization, email from instructor where instructorid='$uid' and pwd='$pwd'";
```

```
mysql_query($db, $query) or die('Error querying database.');
```

```
$result = $db->query($query);
```

```
if($result->num_rows>0){
```

```
$_SESSION['username']= $uid;
```

```
while($row = $result->fetch_assoc())
```

```
{
```

```
echo "<tr>";
```

```
echo "<td>" . $row['instructorname'] . "</td>".
```

```
"<td>" . $row['specialization'] . "</td>".
```

```
"<td>" . $row['email'] . "</td>";
```

```
echo "</tr>";
```

```
}
```

```
}
```

```
echo "</table>";
```

```
echo "</br>";
```

```
echo "</br>";
```

```
echo "</br>";
```

```
echo "Customers under you";
```

```
echo "<table border='1'>
```

```
<tr>
```

```
<th>Customer name</th>
```

```
<th>Customer last name</th>
```

```
</tr>";
```

```
$query="select cfname, clname from customer where classid=(select LEFT(specialization,1)
from instructor where instructorid ='$uid')";
```

```
mysqli_query($db, $query) or die('Error querying database.');
```

```
$result = $db->query($query);
```

```
if($result->num_rows>0){
```

```
while($row = $result->fetch_assoc())
```

```
{
```

```
echo "<tr>";
```

```
echo "<td>" . $row['cfname'] . "</td>".
```

```
"<td>" . $row['clname'] . "</td>";
```

```
echo "</tr>";
```

```
}
```

```
}
```

```
echo "</table>";
```

```
mysqli_close($db);
```

```
?>
```

//ADMIN SIDE

1. admin.php

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-type" content="text/html; charset=utf-8" />
```

```

<title>Free CSS template by ChocoTemplates.com</title>

<link rel="stylesheet" href="css/style.css" type="text/css" media="all" />

</head>

<body>

<!-- Header -->

<div id="header">

    <div class="shell">

        <!-- Logo + Top Nav -->

        <div id="top">

            <h1><a href="#">The Gym</a></h1>

            <div id="top-navigation">

                Welcome <a href="#"><strong>Administrator</strong></a>

                <span>|</span>

                <a href="#">Help</a>

                <span>|</span>

                <a href="#">Profile Settings</a>

                <span>|</span>

                <a href="start.html">Log out</a>

            </div>

        </div>

        <!-- End Logo + Top Nav -->

        <!-- Main Nav -->

        <div id="navigation">

            <ul>

                <li><a href="#"><span>Dashboard</span></a></li>

                <li><a href="addnewclass.html"><span>Add new class</span></a></li>

                <li><a href="addnewinstructor.html"><span>Add new
instructor</span></a></li>

```

```
</ul>
```

```
</div>
```

```
<!-- End Main Nav -->
```

```
</div>
```

```
</div>
```

```
<!-- End Header -->
```

```
<!-- Container -->
```

```
<div id="container">
```

```
<div class="shell">
```

```
<!-- Small Nav -->
```

```
<div class="small-nav">
```

```
<a href="#">Dashboard</a>
```

```
<span>&gt;</span>
```

```
All customers in the gym
```

```
</div>
```

```
<!-- End Small Nav -->
```

```
<!-- Footer -->
```

```
<div id="footer">
```

```
<div class="shell">
```

```
<span class="left">&copy; 2017 - THE GYM</span>
```

```
<span class="right">
```

```
</span>
```

```
</div>
```

```
</div>
```

```
<!-- End Footer -->
```

```
</body>
```

```
</html>
```

```
<?php
```

```
    $db = mysqli_connect('localhost','root','samridhi','gymmanagement')
```

```
        or die('Error connecting to MySQL server.');
```

```
echo "<br>";
```

```
echo "<br>";
```

```
echo "<table border='1'>
```

```
    <caption> Customer Details </caption>
```

```
    <tr>
```

```
        <th>First Name</th>
```

```
        <th>Last Name</th>
```

```
        <th>Age</th>
```

```
        <th>Gender</th>
```

```
        <th>Email</th>
```

```
        <th> Class ID </th>
```

```
    </tr>";
```

```
$query="select cfname, clname, age, gender, email, classid from customer";
```

```
    mysqli_query($db, $query) or die('Error querying database.');
```

```
$result = $db->query($query);
```

```

if($result->num_rows>0){
    while($row = $result ->fetch_assoc()) {

        echo "<tr>";
        echo "<td>" . $row['cfname']. "</td>".
            "<td>" . $row['cname']. "</td>".
            "<td>" . $row['age']. "</td>".
            "<td>" . $row['gender']. "</td>".
            "<td>" . $row['email']. "</td>".
            "<td>" . $row['classid']. "</td>";

    }
}

echo "</table>";

```

```

echo "</br>";

```

```

echo "</br>";

```

```

echo "</br>";

```

```

echo "<table border='1'>

```

```

    <caption> Instructor Details </caption>

```

```

    <tr>

```

```

        <th>Instructor Name</th>

```

```

        <th>Specialization</th>

```

```

        <th>Salary</th>

```

```
<th>Email</th>
```

```
</tr>";
```

```
echo "</br>";
```

```
echo "</br>";
```

```
echo "</br>";
```

```
echo "</br>";
```

```
$query="select instructorname, specialization,salary,email from instructor";
```

```
mysql_query($db, $query) or die('Error querying database.');
```

```
$result = $db->query($query);
```

```
if($result->num_rows>0){
```

```
while($row = $result ->fetch_assoc()) {
```

```
echo "<tr>";
```

```
echo "<td>" . $row['instructorname'] . "</td>".
```

```
"<td>" . $row['specialization'] . "</td>".
```

```
"<td>" . $row['salary'] . "</td>".
```

```
"<td>" . $row['email'] . "</td>";
```

```
}
```

```
}
```

```
echo "</table>";
```

```
mysqli_close($db);
```

```
?>
```

Testing Documents

//CUSTOMER

1. SIGNUP

insert into customer values ('Samridhi', 'Maheshwari', '20', 'F',
'samridhimaheshwari@gmail.com', ' ', 'samridhim');

2. LOGIN

insert into login values ('samridhim', 'samridhi');

3. MEMBERSHIP

update customer set class = 'C' where userid= 'samridhim');

insert into membership values ('samridhim', 'C', 2017-10-04, 2018-01-02);

//INSTRUCTOR

1. Add from admin side :

insert into instructor values ('ruchipanch', 'Ruchi Panchanadikar', 'Zumba', '30000',
'ruchipanch@gmail.com', 'ruchipanch');

//ADD NEW CLASS

1. insert into class values ('A', 'Aerobics', '11-12AM');

Results :

From the testing document, the above values were successfully inserted in the respective tables.

If we tried adding another account with the same username, it gave error.

Also, trying to add 2 classes to the same user account gave error.

Conclusion

Thus, through this project we have made a Gym Management System using MySQL, PHP connectivity. The management system can be used by members, instructors and admin.