

TRIBHUVAN UNIVERSITY

Faculties of Humanities and Social Sciences

GYM SUBSCRIPTION MANAGEMENT SYSTEM

A PROJECT REPORT

Submitted to

Department of Computer Application

Danfe College

Sinamangal, Kathmandu

In partial fulfillment of the requirements for the Bachelors in Computer Application

Submitted by

Sharmila Pyatha (6-2-920-27-2020) Suman Mushyakhwo (6-2-920-32-2020)

Under the Supervision of Bijay Mishra

April 12, 2023



TRIBHUVAN UNIVERSITY SUPERVISOR'S RECOMMENDATION

Thereby recommend that this project prepared under my supervision by Sharmila Pyatha and Suman Mushyakhwo entitled "Gym Subscription Management System" in partial fulfillment of the requirements for the degree of Bachelor of Computer Application is recommended for the final evaluation.

Mr. Bijay Mishra

Project Supervisor

BCA Department

Danfe College, Sinamangal, Kathmandu

Tribhuvan University

Faculty of Humanities and Social Sciences

Danfe College

Sinamangal, Kathmandu

LETTER OF APPROVAL

This is to certify that this project prepared by Sharmila Pyatha and Suman Mushyakhwo entitled "Gym Subscription Management System" in partial fulfillment of the requirements for the degree of Bachelor in Computer Application has been evaluated. In our opinion it is satisfactory in the scope and quality as a project for the required degree.

Mr. Bijay Mishra Supervisor BCA Department Danfe College, Sinamangal Kathmandu	Mr. Bijay Mishra Program Coordinator BCA Department Danfe College, Sinamangal Kathmandu
Internal Examiner	External Examiner

ABSTRACT

The Gym Subscription Management system is a web-based application that allows gym members to manage their subscriptions. The system provides users with the ability to sign up for gym memberships, view membership options and pricing. The system has two types of users: gym members and gym administrators. Gym members can sign up for memberships, view their membership details. Gym administrators can manage gym membership data, information regarding their exercise. The system uses CRUD operations to manage gym membership data. Users can create new membership records, update membership information, and delete memberships if necessary. The Gym Subscription system is designed to be user-friendly and easy to use. It provides users with a streamlined process for managing their gym memberships, making it a valuable tool for both gym members and administrators.

Keywords: Gym, Subscription, Management, Member, data.

ACKNOWLEDGEMENT

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LIST OF ABBREVIATIONS

DFD Data Flow Diagram

GSMS Gym Subscription Management System

ER Entity Relationship

FR Functional Requirement

HTML Hypertext Markup Language

PHP Hypertext Preprocessor.

UC Use Case

UI User Interface

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CHAPTER 1: INTRODUCTION

1.1. Introduction

A web-based Gym subscription system is a digital platform that offers individuals access to Gym-related activities, services, and resources through a subscription model. It allows users to conveniently access Gym options through a website.

With a web-based Gym subscription system, users can access a variety of Gym resources, such as workout routine plans and track membership expiry all through their web browser. These platforms may offer a range of Gym options to cater to different preferences. Users can choose and customize their Gym routine based on their body structure.

1.2. Problem statement

After analyzing many existing Gym subscription systems and interviewing several Gym owners, we now have the obvious vision of the project to be developed. Before we start to build the application, we may have many challenges. We define our problem statement as:

The problem statement for a Gym subscription management system in Nepal is that there is a lack of efficient and modern systems for managing Gym subscriptions, which leads to several issues such as lack of proper planning and control, inefficient management of member data, difficulty in tracking payments and subscriptions, and poor communication between gym owners and their members. Most of the Gym centers use Excel and traditional paper-based systems to track the payment, subscription and member data which is a very bad experience in Nepal. This is a significant problem, especially for Gym centers and gyms that are looking to improve their services and attract more members. The traditional paper-based system is time-consuming, prone to errors, and does not offer the flexibility and convenience that modern-day member's demand. And excel is very difficult to set formulas according to their needs. Therefore, there is a need for a digital solution that can help Gym centers and gyms manage their subscriptions effectively, automate payments and reminders, and improve overall member experience.

1.3. Objective

Some objective of Gym Subscription Management System are as follow:

- To provide a proper exercise routine according to their body structure.
- To provide a better gym services.

1.4. Scope and Limitation

1.4.1 Scope of System

- Members can request for routine and view their routine through website
- Admin can manage data of members, categories and routines.
- Admin can keep track members subscription expiry date.
- Every Gym center can use this system to maintain data and other facilities.

1.4.2 Limitation of Existing System

The limitations of a Gym management system can depend on its specific design, implementation, and features. Here are some common limitations that may be associated with Gym management systems in the context of Nepal:

- Many gyms use Excel to keep track of their data, but this isn't the best way to do it.
- User interface is poorly designed.

1.5. Report Organization

Chapter 1 includes introduction of the system Gym Subscription Management System with its problem of statement, objective and its scope and limitation.

Chapter 2 includes the background study of Gym Subscription Management System and some literature review of other Gym Subscription Management System systems.

Chapter 3 includes the functional and non-functional requirements along with feasibility

Analysis and architectural design of the Gym Subscription Management System.

Chapter 4 includes the tools used in this system and the testing that is done.

Chapter 5 includes about the outcome of this system as well as the future recommendations for the Gym Subscription Management System.

CHAPTER 2: BACKGROUND STUDY AND LITERATURE REVIEW

2.1. Background Study

A Gym Subscription Management System is a software application or platform designed to assist individuals and organizations in managing various aspects of Gym and wellness. It provides tools and features that help with tracking, monitoring, and improving physical activity, and membership expiry date. Understanding the Gym industry, its trends, and the challenges faced by Gym professionals and enthusiasts is crucial. Explore topics such as gym management. Given the sensitive nature of personal health and Gym data, it is important to consider security and privacy concerns when designing or using Gym management systems. Study topics such as data encryption, secure authentication, and compliance with data protection regulations. Analyze existing Gym management systems, both commercial and research-based. Examine case studies, academic papers, and industry reports to gain insights into successful implementations, user feedback, and areas of improvement.

2.2. Literature Review

Gym management systems play a crucial role in facilitating the efficient operation and administration of Gym centers. These systems integrate various functionalities, such as membership management, providing routine to members, subscription tracking. This literature review aims to explore the existing research and literature surrounding Gym management systems, highlighting their benefits, challenges, and potential areas for improvement.

Gym management systems enable members to easily register, view workouts plans and track subscription expiry resulting in a more engaging and convenient Gym journey. These systems automate tasks like membership enrollment, and routine scheduling, reducing administrative burdens and allowing staff to focus on delivering quality services.

CHAPTER 3: SYSTEM ANALYSIS AND DESIGN

3.1. System Analysis

The system analysis of the system is done by conducting requirement analysis, feasibility analysis, data modeling, and process modeling as follows:

3.1.1. Requirement Analysis

Functional Requirement

A Functional Requirement is an outline of the service that the Gym Subscription Management System must offer. Features the system must provide are refined into use case diagrams. To best capture the functional requirements of the system.

Use Case

The figure 3.1 is the use case diagram of the Gym Subscription Management System. There are three actors Member, Admin and Trainer.

- The Admin is able to search members through name.
- The member is able to view the exercise routine.
- An Admin is able to login through their email and password
- A member is able to login through their email and password.
- A member is able to logout.
- A member is able to choose subscription categories.
- A member is able to request routine from the admin.
- An admin is able to manage categories, routine and member database.
- A member is able to see payment records from the beginning of his own.
- An admin is able to retrieve payment records of all members.
- A member is able to view their subscription expiry date.
- An admin is able to update members' subscription date.
- An admin and members is able to update their profile info.

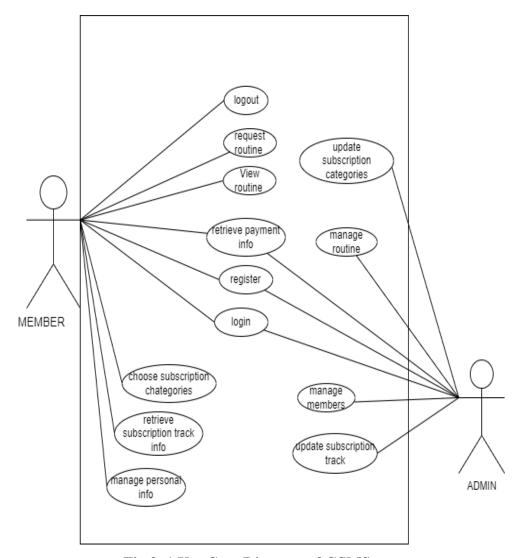


Fig 3. 1 Use Case Diagram of GSMS

Non Functional Requirements

- **Performance Requirement:** This system is designed for clean overall performance results. The performance of the Gym Subscription Management System will highly depend on the performance of the hardware and software components of the installed devices. Responses to view information shall take no longer than 5 seconds to appear on the screen.
- **Usability Requirement:** This system is very easy to use as it is written using basic html and php so that the user can interact with the system easily to do the needed work. And its security feature makes it very secure and reliable.
- **Availability Requirement:** This project is a web-based application. Meaning any browsers (ME Chrome etc.) can be used. Also, the system is operational 24hrs a day and 7 days a week.

- **Environmental Requirement:** The system shall require a localhost server, database server, and a web browser to run successfully.
- **Compatibility Requirement:** The system is compatible across all platforms under the required environment.
- **Security Requirement:** Every user shall have a unique Session while logging into the system. The user password is in encrypted format in the database

3.1.2. Feasibility Analysis

The feasibility analysis of Gym Subscription Management System is done by measuring the following feasibilities, which are explained as follows:

• Technical:

The system can be implemented in various technologies presently available and in all technologies that will be implemented in the future.

• Operational:

This project is feasible to operate. The current mode of operation provides adequate throughput and response. So this project is entirely operational and can be operated on any platform.

• Economic:

No economic feasibility analysis has been conducted, but it can be done based on Function Point Analysis or the Kilo Line of Code method.

Schedule Feasibility:

Here is the Gantt chart showing the probability of the project being completed within its scheduled time limits by a planned due date.

No.	Task	Chaitra	Baisakh	Jestha	Ashar	Shrawan	Bhadra
1	Project Selection						
2	Proposal Defense						
3	Planning and Analysis						
4	Design						
5	Coding						
6	Testing						
7	Documentation						

Fig 3. 2 Gantt chart of GSMS

3.1.3. Data Modeling(ER-Diagram)

The Entity-Relationship Diagram of our proposed system (Gym Subscription Management System) is given below.

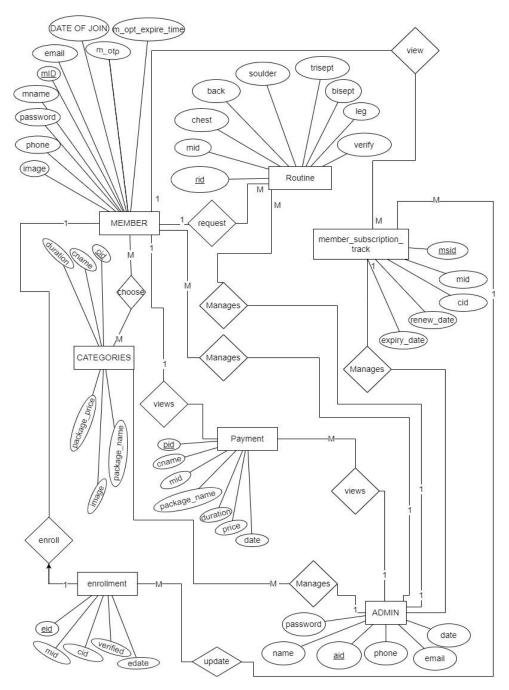


Fig 3. 3 ER Diagram of GSMS

3.1.4 Process Modeling

For process modeling of Gym Subscription Management System, context diagram and DFD level 1 are as follows:

Context Level Diagram

The context diagram of our proposed system (Gym Subscription Management System) is given below.

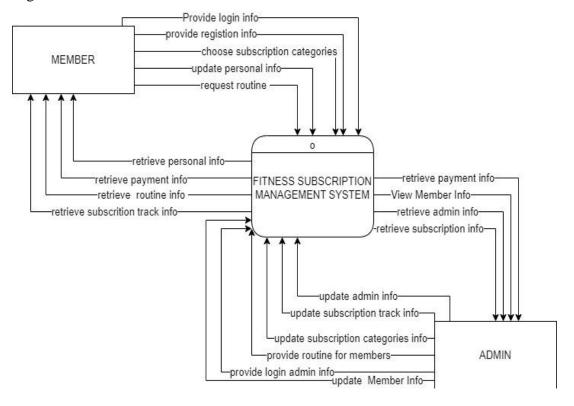


Fig 3. 4 Context Level Diagram of GSMS

DFD Level 0

The data flow diagram of our proposed system (Gym Subscription Management System) is given below.

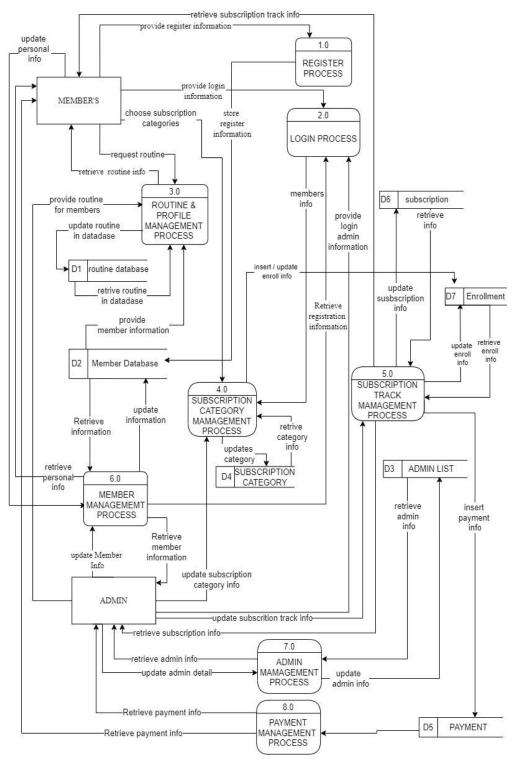


Fig 3. 5 DFD Level 0 of GSMS

3.2. System Design

The system design of Gym Subscription Management System consists of architectural design, database schema design, user interface design, and physical DFD are shown as follows:

3.2.1. Architectural Design

The Architecture Design of our proposed system (Gym Subscription Management System) is given below.

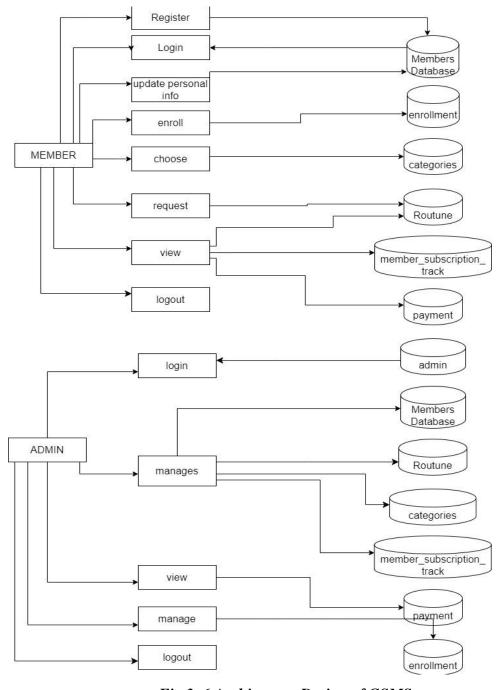


Fig 3. 6 Architecture Design of GSMS

3.2.2. Database Schema Design

The Database Schema Design of our proposed system (Gym Subscription Management System) is given below.

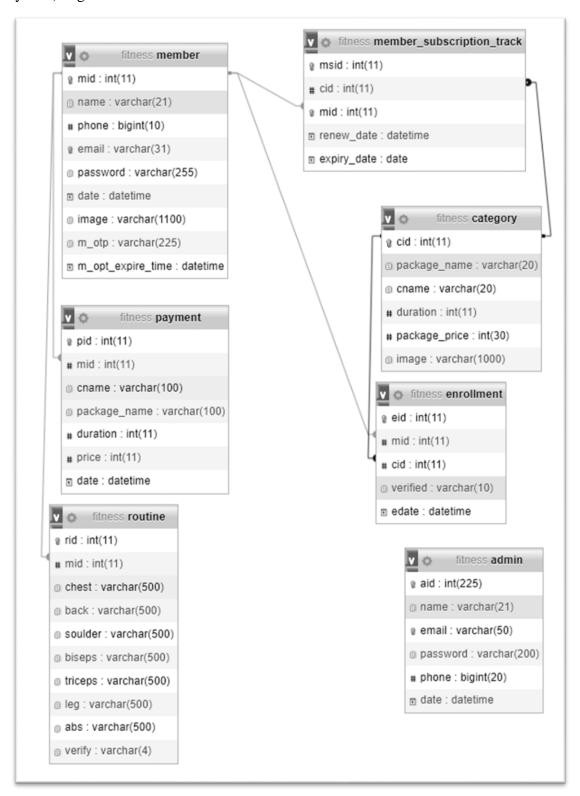


Fig 3. 7 Database Schema Design of GSMS

3.2.3. Interface Design (UI Interface / Interface Structure Diagram)

The interface design for all the major pages of GSMS are shown as follow:

Login Page UI

The Login UI page of our proposed system (Gym Subscription Management System) is given below.

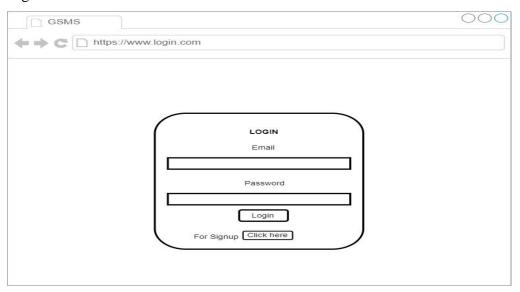


Fig 3. 8 Login Page UI of GSMS

Signup Page UI

The Signup UI page of our proposed system (Gym Subscription Management System) is given below.



Fig 3. 9 Signup Page UI of GSMS

Dashboard Page UI

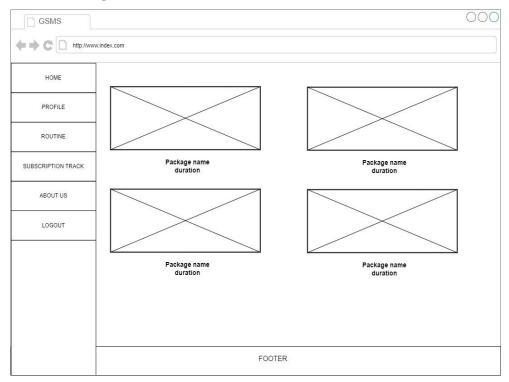


Fig 3. 10 Dashboard Page UI of GSMS

3.2.4. Physical DFD

The Physical DFD of our proposed system (Gym Subscription Management System) is given below.

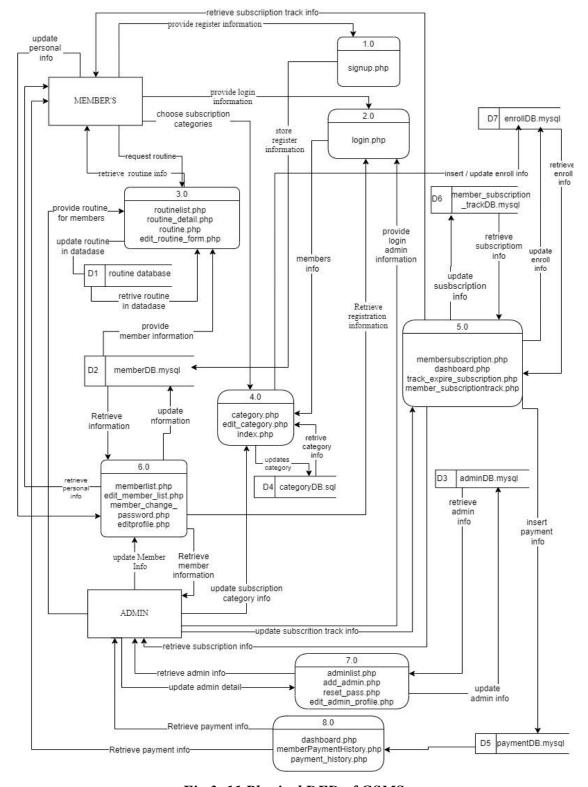


Fig 3. 11 Physical DFD of GSMS

CHAPTER 4: IMPLEMENTATION AND TESTING

4.1. Implementation

The tools and techniques used to implement the system and the implementation details of various modules of Gym Subscription Management System are as follows:

4.1.1. Tools Used (CASE tool, Programming Languages, Data Platforms)

The tools used for the implementation of Gym Subscription Management are listed below:

Draw.io

Draw.io is an online diagram editor constructed around google drive. Using draw.io we have been capable of creating UML diagrams, entity relations diagrams, and plenty more. One of the benefits of draw.io is that it stores the information in google drive, consequently, there's no need for an extra third party.

HTML CSS & JavaScript

HTML, CSS, and JavaScript were used for the front-end development. HTML was used for the web page elements. CSS was used to provide its styling to the components. JavaScript was used for client-side validations and adding dynamic components to the Website.

PHP

PHP is a server-side scripting language that is embedded in HTML. It is included with some of the famous databases, which include MySQL, and its usage has helped us add, delete, and modify elements inside our database via PHP. Using PHP, we had been capable of limiting customers to get entry to a few pages of our website.

MySQL

MySQL is presently the most famous database management system software used for dealing with relational databases. It was used along with PHP scripts for developing our database structure. It became extensively utilized to carry out numerous activities like insertion, deletion, and update of the records saved in the database.

Visual Studio Code

Visual Studio Code is a lightweight but powerful source code editor which runs on computer systems and is available for Windows, macOS, and Linux.

4.1.2. Implementation Details of Modules (Description of Procedures / functions)

The major function module of Gym Subscription Management System and their implementation is shown in the figure below:

Signup module

This module is used to register the new member into the system. Here the member has to fill up all the necessary details about themselves to get registered. These data gathered are first validated and then stored into the database using SQL query. After the registration the registered user shall log into the system by providing email and password which is identical to the email and password stored into the database.

\$sql = "INSERT INTO member (name, email, phone, password) VALUES
('\$name', '\$email', '\$phone', '\$password')";

Edit Member Detail Module

This module is used to update the existing member into the system. Here the member has to update all the necessary details. The data gathered are first validated and then updated into a database using SQL query.

If there is image sql will be:

\$sql = "UPDATE member SET name='\$n', phone='\$ph', email='\$e',
image='\$file_name' WHERE mid='\$mid''';

If there is no image sql will be:

\$sql = "UPDATE member SET name='\$n', phone='\$ph', email='\$e' WHERE mid='\$mid'";

Delete Member Detail Module

This module is used to delete the data of existing member into the system.

\$sql = "DELETE FROM member WHERE mid='\$id'";

View all Members Detail

This module is used to view the total member details which are existing into the system.

\$sql = "select * from member";

Add Category Module

This module is used to add the category into the system. Here the Admin has to fill up all necessary details about that category.

\$sql = "INSERT INTO category (package_name,cname, duration, package_price,
image) VALUES ('\$pname', '\$cname', '\$duration', '\$price', '\$file_name')";

Edit Category Module

This module is used to edit the details of categories into the system.

```
$sql = "UPDATE category SET package_name = '$pname', cname = '$cname',
duration = '$duration', package_price = '$price',image = '$file_name' WHERE cid =
$cid;";
```

If image is not uploaded

```
$sql = "UPDATE category SET package_name = '$pname', cname = '$cname',
duration = '$duration', package_price = '$price' WHERE cid = $cid;";
```

View all Category Detail

This module is used to view the total category details which are existing into the system. \$sql = "select * from category";

4.2. Testing

The testing section is accomplished to validate the Gym Subscription Management System. The Gym Subscription Management System is examined to test if the final system can work in keeping with what we have been waiting for and is free from any programming and logical errors. It additionally makes sure whether or not all of the systems and requirements are met or not.

4.2.1. Test Cases for Unit Testing

Unit testing is a software program development method in which the smallest testable components of an application, known as units, are individually and independently scrutinized for correct operation. Below are the numerous tables for distinctive test cases:

Table 1 Test Case 0001 Sign Up

S.N.	Test Case	Input	Expected Outcome	outcome
1	Navigate to sign up page	Path: http://localhost / project/ signup.php	sign in page should open	As Expected i.e. Member is navigated to sign in page of system
2	Provide own details	Full name: Email: Password: Confirm Password: Phone no.	Credential can be entered	As expected
3	Click on signup button	clicked	User should sign up.	As expected.

Post-conditions: Signup successful

Table 2 Test Case 002 Sing Up Unsuccessful

S.N.	Test Case	Input	Expected Outcome	outcome
1	Whenever the Name field contains a number or a symbol	Eg: sum2an mushya@khwo	Display error message.	An Expected Error message is displayed.
2	If the name contains more than 20 alphabets	Eg: suasdwawdaman mushyakhwo	Display error message.	As expected, Error message is displayed.
3	if the phone number is less than or more than ten numbers long and contains any alphabets	Eg: 9862123456d12	Display error message.	An Expected Error message is displayed.
4	if an invalid email address is entered	Eg: sumahyakhwogmai lcom	Display Error message: Output.	An Expected Error message is displayed.
5	if the email address entered is already registered		Display error message.	An Expected Error message is displayed.

6	if the	Eg:	Display	Error	An Expected
	password	sumaasdadsn@123	message:		Error
	length is less	4	Output.		message is
	or more than				displayed.
	10 characters				
7	if the		Display	error	An Expected
	password and		message.		Error
	confirmation				message is
	password do				displayed.
	not match				
Post o	ondition (Sign	IIn IInguagasaful			

Post-condition :Sign Up Unsuccessful

Table 3 Test Case 003 Login

Pre-conditions: The member has a valid email and password.

Dependencies: sign-up module

S.N	Test Case	Input	Expected	outcome
•			Outcome	
1	Navigate to login page		Login page should open	As Expected i.e. Member is navigated to Login page of system
2	Correct email and password	User must login successfully	User logged into the system	As Expected i.e. User was able to access the services provided by the system
3	Incorrect email but correct password	User must not login	User was not logged into the system	User was not able to access the services provided by the system
4	Correct email but incorrect password	User must not login	User was not logged into the system	User was not able to access the services provided by the system

Post-conditions: Member is validated with database and successfully login into GSMS

The account session details are logged into the database.

Table 4 Test Case 005 Add Category

	Pre-conditions: Admin is login into Gym Subscription Management System					
Deper	Dependencies: login module					
S.N.	Test Case	Input	Expected Ou	tcome	Output	
1	Navigate to category page		category pag	ge should	As expected i.e. admin is navigated to category page of system	
2	Click Add Category Button	Button click	Add catego page should o	•	As expected i.e. admin is navigated to add category page of system	
3	Provide all required information	Package name= category name = gym(default) price= image=	Credential can be entered	are fille validation it is accep	ed if all textboxes and image is successful then otted otherwise we an error. Error	
4	Data insertion	Click on the add category	Admin should add a categor into the syster	y package	As Expected i.e. Admin can add the question to the system	

4.2.2. Test Case for System Testing

System Testing is a form of software testing that is executed on a complete integrated system to assess the compliance of the system with the corresponding requirements.

Table 5 Test Case 006 System Test

SN	Test case	Input	Expected	Output
			outcome	
1	Check with	email:admin@gmail.c	Successful login	Open
	admin login	<u>om</u>		dashboard
		password:admin@123		
		4		
2	Check with	Click delete and edit	Must be edited or	Edit and
	delete and edit	button	deleted	delete
	member from			messages
	admin site			should be
				displayed
				successfully.
3	Check with add	If required fields are	Successful entry of	Inserted data
	categories	filled with defined data	new category	into the
		type		category
		Then click the add		table.
		category.		
4	Check with	Click edit or delete	Must be edited or	Edit and
	delete and edit	button	deleted	delete
	Subscription			messages
	categories			should be
				displayed
				successfully.
5	Check with	Click update or ignore	Must be updated	Update
	update or	button	or ignored.	message

	ignore requested routine by admin			should be displayed successfully.
6	Check with add admin	If required fields are filled with defined data type	Successful entry of new admin	Inserted data into the admin table.
7	Check with delete and edit admin	Click edit or delete button	Must be edited or deleted	Edit and delete messages should be displayed successfully.
8	Check member enrollment with verified, Reject and Reset then verify by admin	Click verified. Reject and reset then verify	Must be verified or rejected or Reset the verified	
9	Check with logout	Click logout button	Successfully logout	Redirect to login

SN	Test case	Input	Expected outcome	Output
1	Check with member login	Email: sumanmushyakh wo@gmail.com Password: suman@1234	Successfully login	Open member index page
2	Check edit member profile button	Click update button	Must be edited successfully	Update into member database
3	Check request routine button	Click request button	Successfully routine is requested	Requests must be shown in the admin Routine page for update.
4	Check enrollment	Click on enroll button	Expiry date should be increased according to the packaged enrolled	Update expiry date according to category package
5	Check with logout	Click logout button	Successfully logout	Redirect to login

CHAPTER 5: CONCLUSION AND FUTURE RECOMMENDATIONS

5.1. Lesson Learnt / Outcome

With the growth and development of the project, we also grew our knowledge little by little. We have learned lots of problem-solving skills and learnt things like teamwork, finding the solution on our own, proper use of guidelines, communication and writing skills and management of the team. This project didn't only help in our academic development but also widened our horizon of curiosity. We have found ourselves more eager to learn about new languages and designing techniques while developing this project.

5.2. Concussion

The Gym Subscription Management System is a very important tool for gym managers and members alike. It makes the gym better for members and helps things run smoothly. This technology helps gym operators to track memberships and communicate with them more efficiently. It aids in resource allocation, employee management, and revenue growth. It also provides useful insights about member behavior and preferences, allowing for data-driven decision-making. The Gym Subscription Management System provides members with simplicity and transparency. They can simply join up for memberships, make payments, and check their account information via online. This improves their overall experience and fosters long-term gym engagement.

5.3. Future Recommendations

The following section describes the work that will be implemented with future software releases.

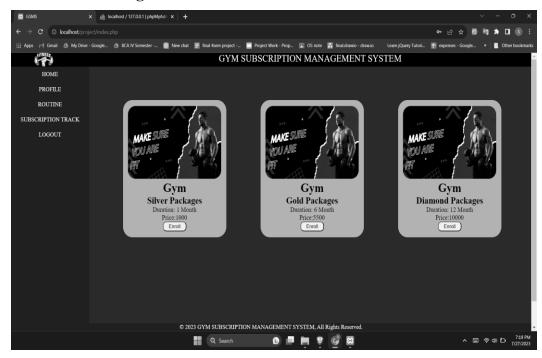
- We can add video tutorials and exercise guides.
- We can add image galleries and blogs to attract new members to the gym.
- Allow members to perform online payment as well.
- Generation of billing systems.
- Enhance the member interface by incorporating more interactive features

REFERENCES

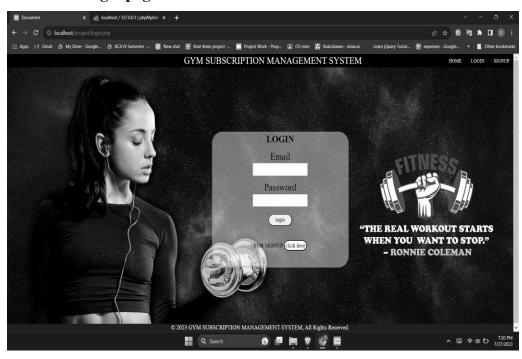
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APPENDICITIS

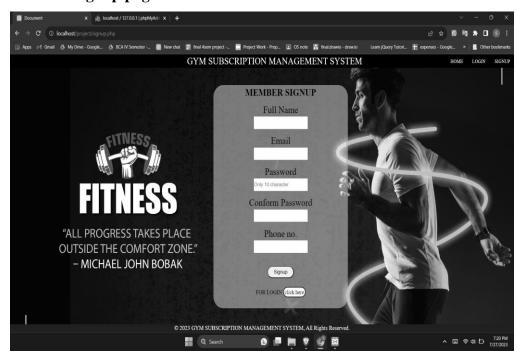
1. Member Home Page



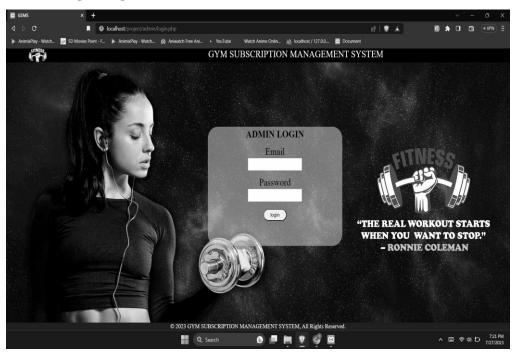
2. Member Login page



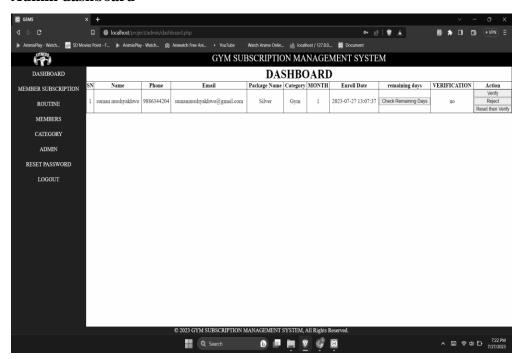
3. Member Signup page



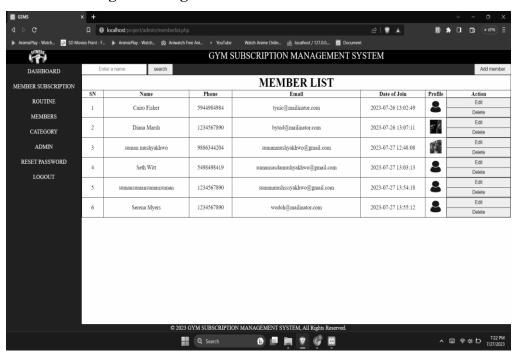
4. Admin Login Page



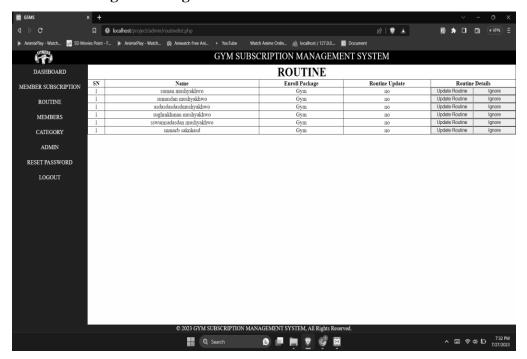
5. Admin dashboard



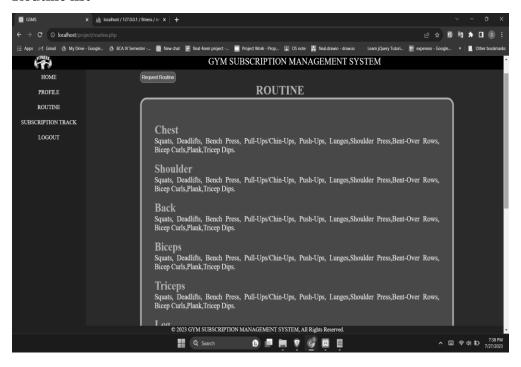
6. Member Management Page



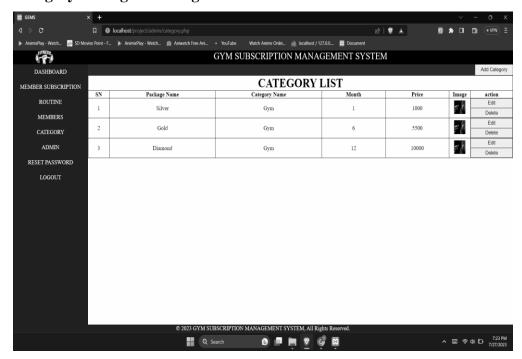
7. Routine Management Page



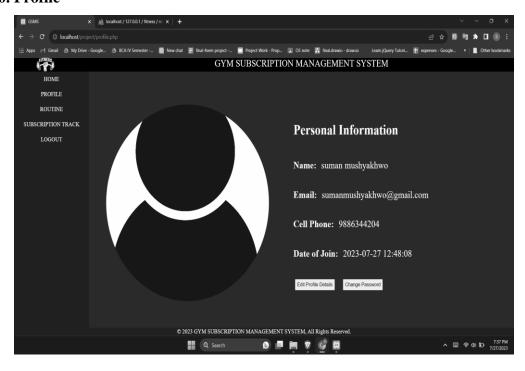
8. Routine list



9. Category Management Page



10. Profile



11. Subscription track

