



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
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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.

SIGNATURE

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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.

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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, Web-based application, Membership options, CRUD, User-friendly.

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LIST OF ABBREVIATIONS

CSS	Cascade Style Sheet
DFD	Data Flow Diagram
ER	Entity Relationship
FR	Functional Requirement
GSMS	Gym Subscription Management System
HTML	Hypertext Markup Language
MYSQL	My Structured Query Language
PHP	Hypertext Preprocessor.
UC	Use Case
UI	User Interface

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, 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 track the membership expiry date.
- To provide a proper exercise routine according to their body structure.

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.

Gym Subscription Management System has been prepared to eliminate the time required for the existing system. In the previous system, no records were secured because all of the paper work was there, and if the paper was misplaced, all of the records were lost, so to avoid all of these problems, this gym management system project was created. In a gym management system, it is necessary to have a system that can easily handle details while also providing user security. It also necessitates the use of software that stores information about employees and individuals. This is a very useful and beneficial system.

Over the years, the number of people joining gyms and health clubs has steadily increased in the fitness industry. Because of this expansion, more efficient and organized methods of managing memberships, payments, and member data were required. Fitness centers' membership offerings have expanded to include a variety of subscription plans, such as monthly, quarterly, and annual memberships, as well as day passes and trial periods. Managing these various membership types and billing cycles necessitated the use of specialized software. Technological advancements, particularly in the areas of cloud computing, mobile app development, and online payment processing, have simplified the creation and implementation of gym subscription management systems. Members began to expect more convenience and accessibility from their gyms as they became more tech-savvy and accustomed to digital experiences.

2.2. Literature Review

Muscle Power Gym in Godagama Srilanka, recognized the growing interest in health and fitness and created an IT solution to manage their growing membership. They gathered user requirements and created software to replace their manual system through iterative development. The software manages members, tracks attendance, manages fees, performs maintenance, and generates reports. It controls access with usernames and passwords and recommends workouts based on members' physical conditions. [1]

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. [2]

A gym subscription management system literature review would typically include an examination of existing research and literature on the topic. Gym subscription management systems are intended to help fitness centers streamline their administrative processes. Several studies have found similarities and functionalities in these systems. Membership registration, attendance tracking, class scheduling, and member communication are among them. According to research, implementing gym subscription management systems can result in a number of advantages for both gym owners and members. These advantages include higher member retention rates, better revenue management, increased member engagement through notifications and reminders, and lower administrative costs. The gym subscription management system landscape is expected to continue to evolve as technology advances. Emerging trends include the use of artificial intelligence (AI) for personalized fitness recommendations, improved data analytics for targeted marketing, and wearable devices for easy access and tracking. [3]

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 two actors Member and Admin.

- 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.

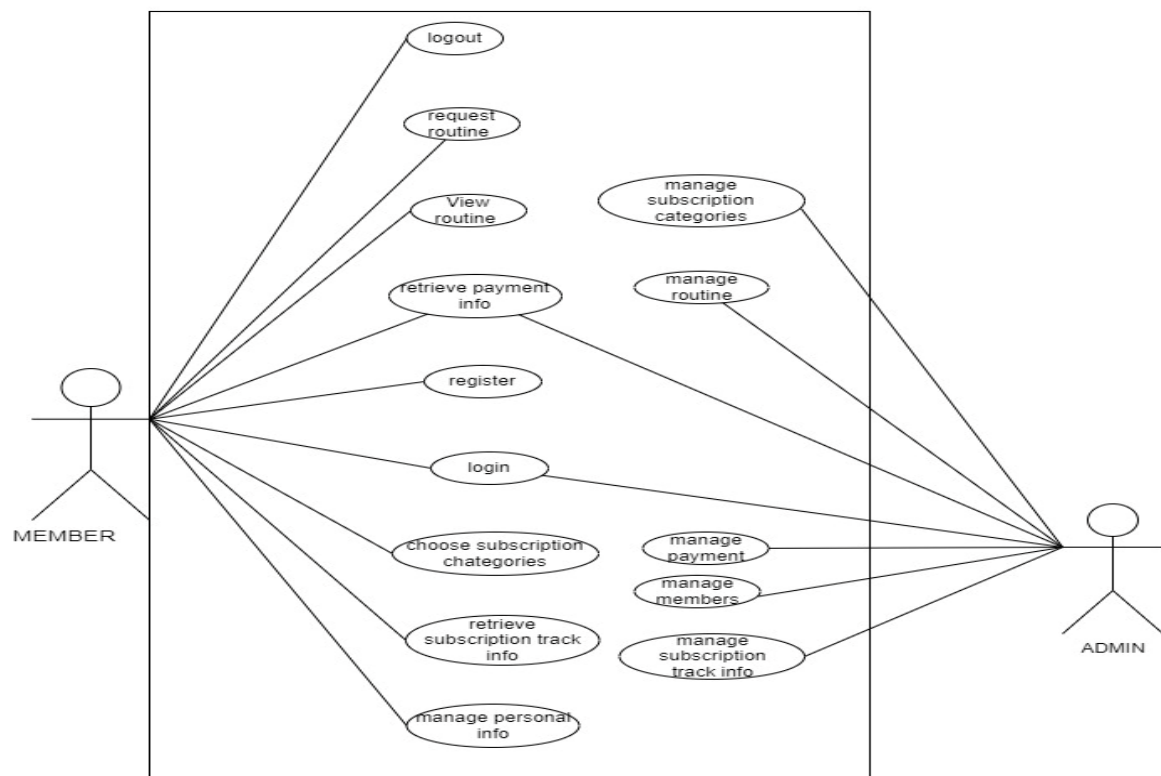


Fig 3. 1 Use Case Diagram of GSMS

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.
- **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.

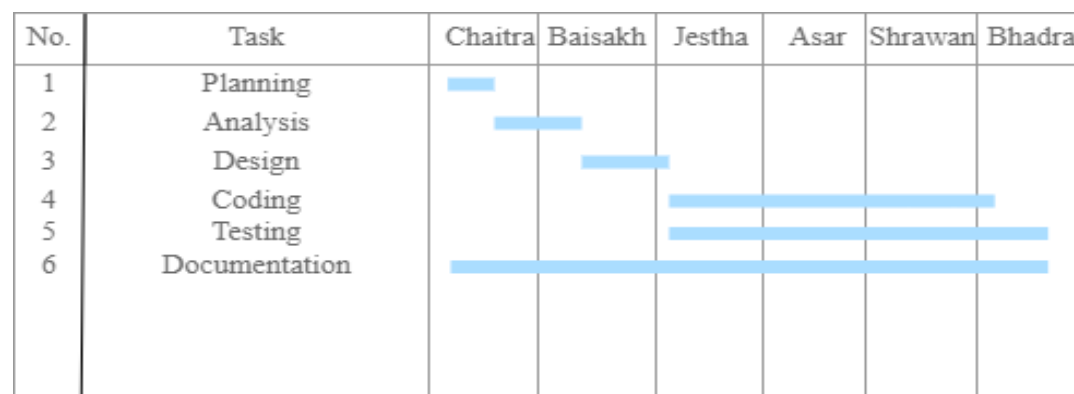


Fig 3. 2 Gantt chart of GSMS

3.1.3. Data Modeling(ER-Diagram)

Entity-Relationship Diagram of our proposed system (Gym Subscription Management System) is shown below. Here, Admin manages subscription category, members, routine, subscription track, and enrollment. Member choose categories, view routine and track their membership expiry. Each entity has its own primary key. For example admin has aid, member has mid, routine has rid.

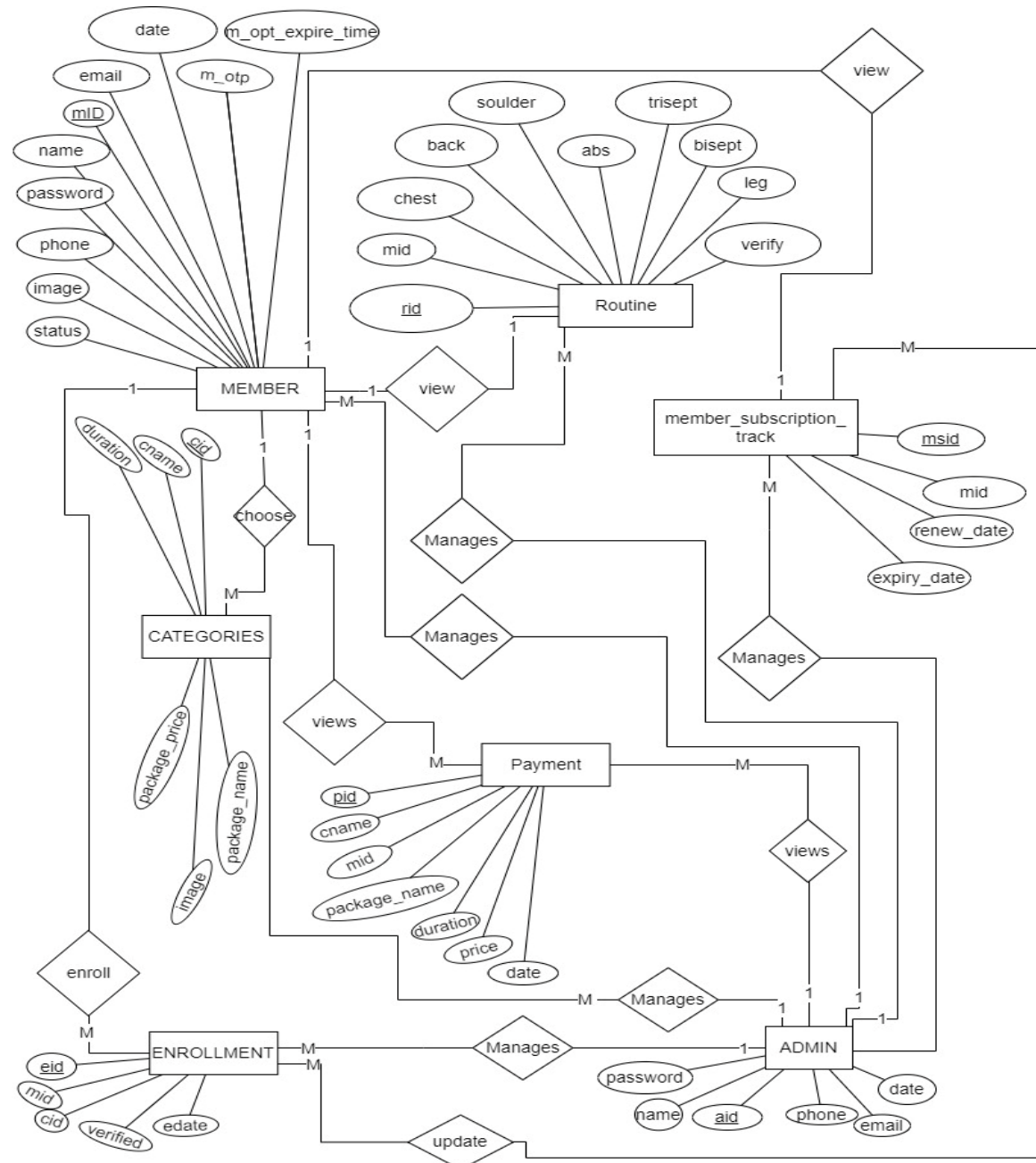


Fig 3. 3 ER Diagram of GSMS

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 figure 3.4 is also known as context level diagram. It's a basic overview of the whole system or process being designed. The above context level diagram shows the basic overview of "GSMS: Gym Subscription Management System". Here members shall register into the system by filling there basic information which is then stored in database. Then member shall be able to login with there credentials. Members shall be able to select a subscription category/plan and also obtain payment information and routine information. Admin shall manage members, categories, and payments, as well as retrieve member, category and payment information.

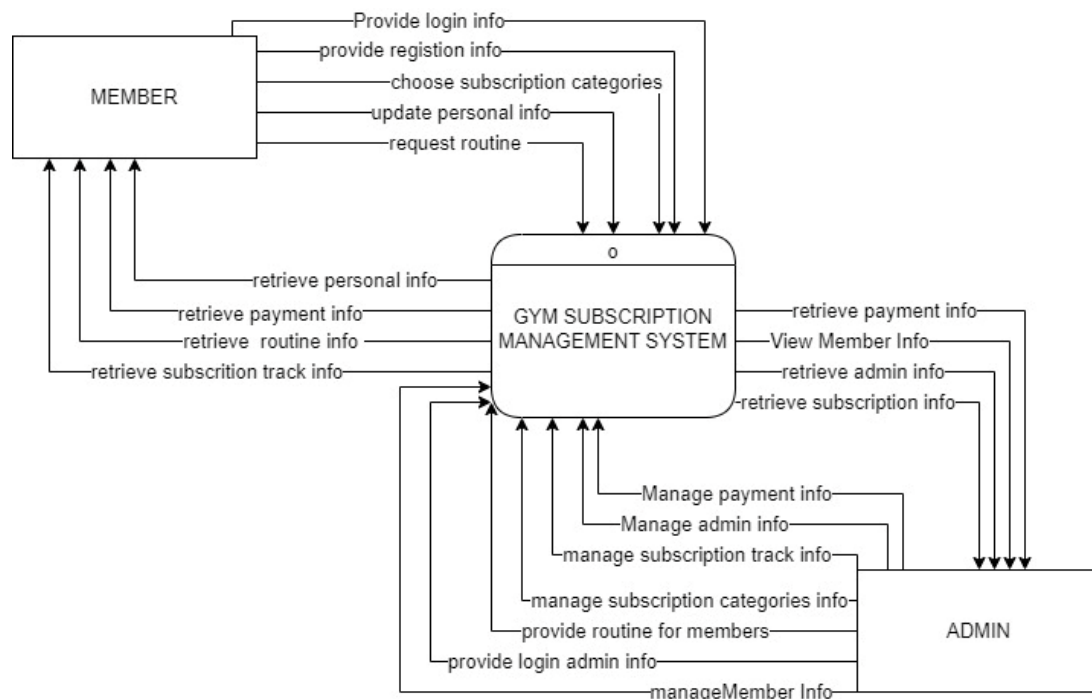


Fig 3. 4 Context Level Diagram of GSMS

```

graph TD
    MEMBER[MEMBER]
    REGISTER[1.0 REGISTER PROCESS]
    LOGIN[2.0 LOGIN PROCESS]
    SUBCAT[4.0 SUBSCRIPTION CATEGORY MANAGEMENT PROCESS]
    SUBTRACK[5.0 SUBSCRIPTION TRACK MANAGEMENT PROCESS]
    MEMMGT[6.0 MEMBER MANAGEMENT PROCESS]
    ROUTE[3.0 ROUTINE MANAGEMENT PROCESS]
    PAYMGT[8.0 PAYMENT MANAGEMENT PROCESS]
    ADMIN[ADMIN]
    ADMINMGT[7.0 ADMIN MANAGEMENT PROCESS]

    D1[D1 routine database]
    D2[D2 Member Database]
    D3[D3 ADMIN LIST]
    D4[D4 SUBSCRIPTION CATEGORY]
    D5[D5 PAYMENT]
    D6[D6 subscription_track Database]
    D7[D7 Enrollment]

    MEMBER -- "update personal info" --> REGISTER
    REGISTER -- "retrieve personal info" --> MEMBER
    REGISTER -- "request routine" --> MEMBER
    REGISTER -- "retrieve routine info" --> MEMBER
    MEMBER -- "provide register information" --> REGISTER
    REGISTER -- "store register information" --> D2
    D2 -- "Retrieve member registration information" --> REGISTER
    MEMBER -- "provide login information" --> LOGIN
    LOGIN -- "member login info" --> SUBCAT
    LOGIN -- "admin login info" --> SUBTRACK
    MEMBER -- "choose subscription categories" --> SUBCAT
    SUBCAT -- "manage subscription categories info" --> D3
    D3 -- "retrieve admin info" --> SUBCAT
    SUBCAT -- "manage category info" --> D4
    D4 -- "retrieve category info" --> SUBCAT
    SUBCAT -- "manage enroll info" --> D7
    D7 -- "update enroll info" --> SUBCAT
    D7 -- "retrieve enroll info" --> SUBCAT
    SUBCAT -- "retrieve subscription info" --> SUBTRACK
    SUBTRACK -- "manage subscription track info" --> D6
    D6 -- "retrieve subscription track info" --> SUBTRACK
    SUBTRACK -- "insert payment info" --> D5
    SUBTRACK -- "manage payment info" --> PAYMGT
    PAYMGT -- "retrieve payment info" --> D5
    SUBTRACK -- "provide routine for members" --> D1
    SUBTRACK -- "Manage payment info" --> ROUTE
    ROUTE -- "Retrieve payment info" --> D1
    SUBTRACK -- "Manage Member Info" --> MEMMGT
    MEMMGT -- "retrieve member information" --> D2
    MEMMGT -- "Manage member information" --> D2
    MEMMGT -- "View member information" --> MEMMGT
    SUBTRACK -- "manage admin info" --> ADMINMGT
    ADMINMGT -- "retrieve admin info" --> SUBTRACK
    ADMINMGT -- "manage admin info" --> D3
    D3 -- "retrieve admin info" --> ADMINMGT
    ADMINMGT -- "manage admin info" --> ADMINMGT
  
```

Fig 3. 5 DFD Level 1 of GSMS

The figure 3.5 provides a more detailed breakout of pieces of context level diagram. The above DFD provides the detail information of the context level diagram of " GSMS: Gym Subscription Management System ". The diagram shows that the member shall register into the system and register member should login into the system through login and register management. Member users' details are managed through the member management process by admin.

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 figure 3.6 represents the architectural design of the GSMS: Gym Subscription Management System. There are two modules in the system. i.e., Member and Admin. Member shall register themselves into the system by filling up the necessary details and those details are saved in the member table of the database. Admin shall provide routine on the basis of member requests and manage categories. Member shall view the routine provided by the admin. Similarly, admin shall login to the system and manage the member data, payment information and enrollment.

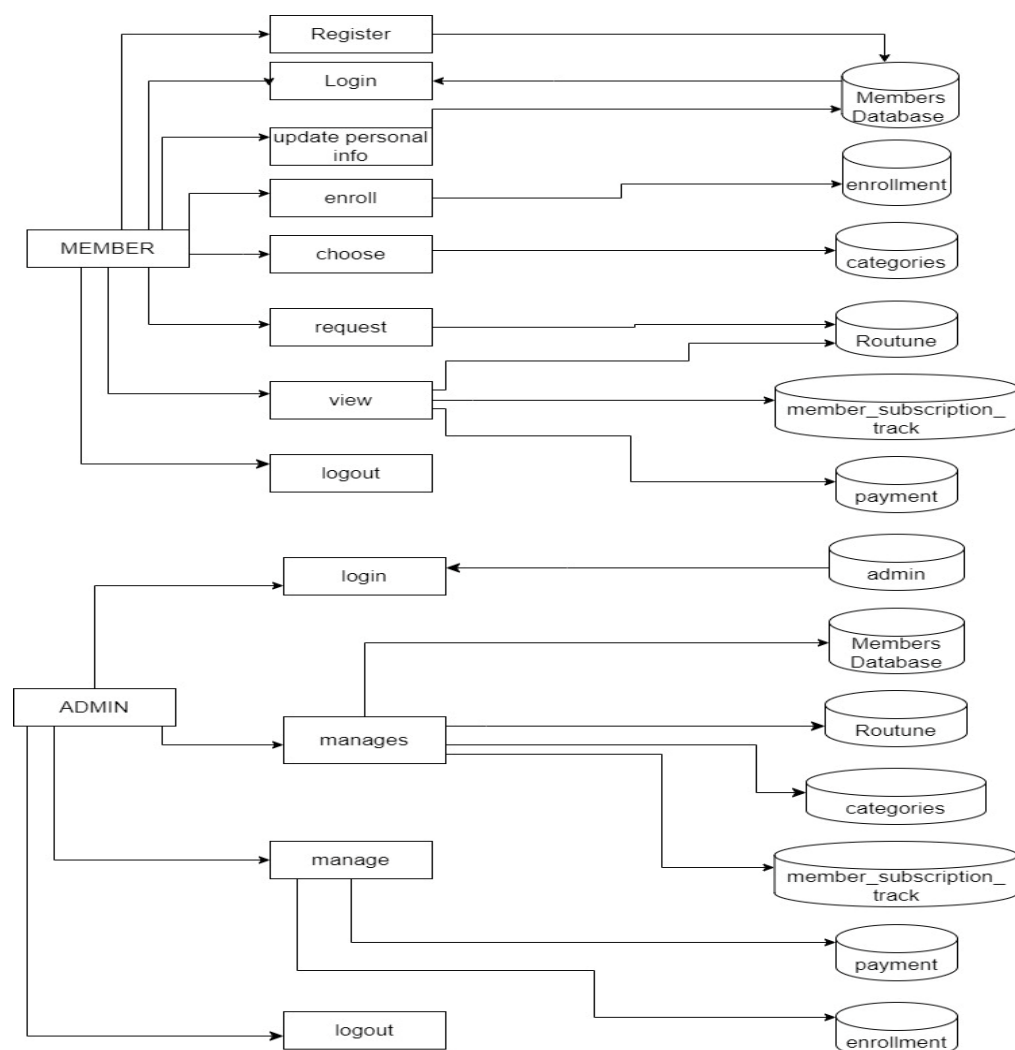


Fig 3. 6 Architecture Design of GSMS

3.2.2. Database Schema Design

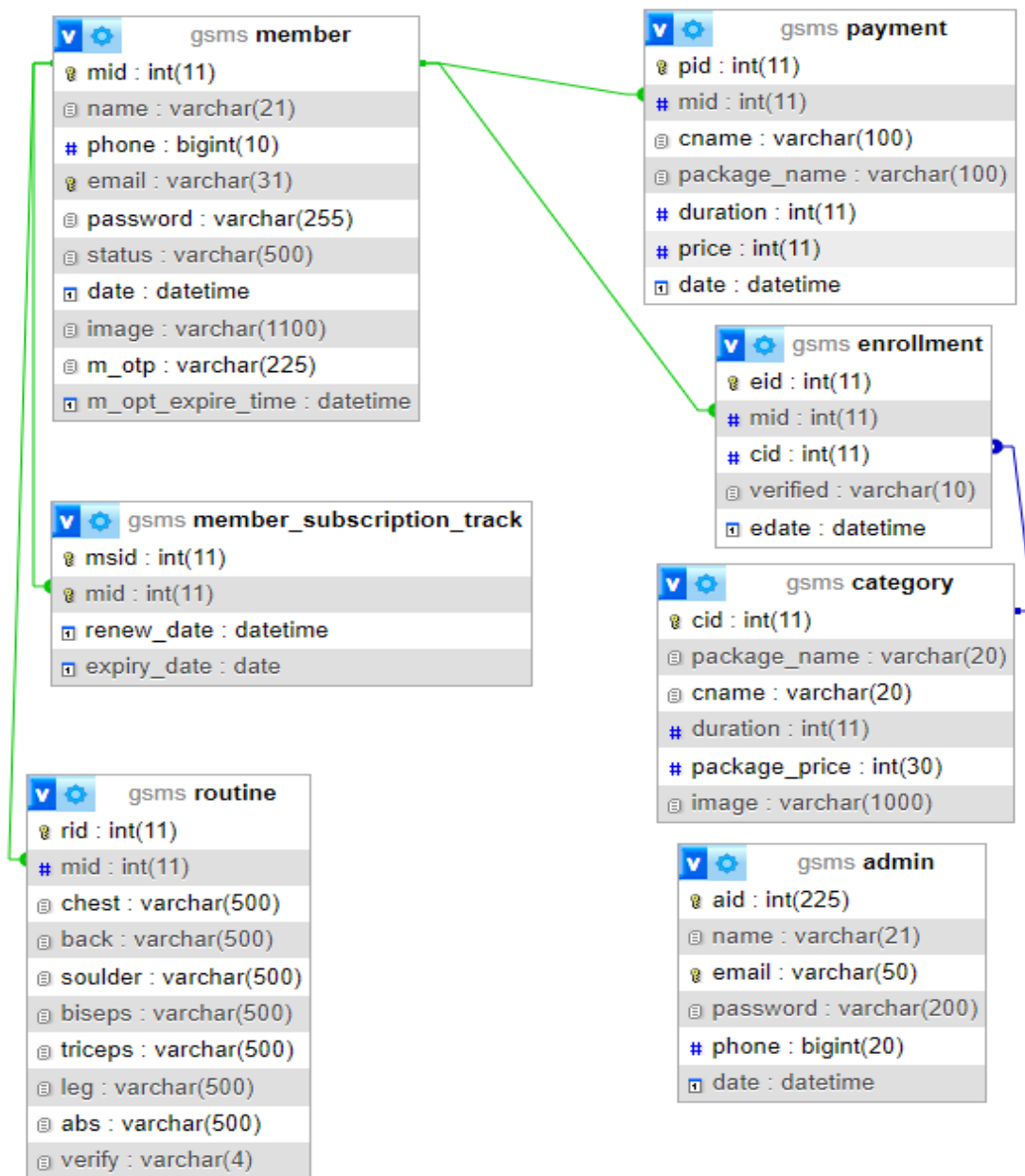


Fig 3. 7 Database Schema Design of GSMS

The figure 3.7 represents the database schema of the GSMS: Gym Subscription Management System showing all the relations (Member, Category, Enrollment, Routine, Member_Subscription_Track, payment and Admin) along with their respective attributes and inter-relationship between the relations.

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. By clicking on the login button, member shall log into the system by providing their correct email address and their password if they have an account. If they provide incorrect email or password the system won't let them log into the system.

The image shows a wireframe of a web browser window. The browser has a single tab titled "GSMS". The address bar contains the URL "https://www.login.com". The main content area of the browser displays a login form. The form is a rounded rectangle with the word "LOGIN" at the top. Below the title, there are two input fields: the first is labeled "Email" and the second is labeled "Password". At the bottom of the rounded rectangle, there are two buttons: "Login" and "Click here".

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. By clicking on the signup link member gets transferred to the signup page where they have to fill up all the necessary details required like full name, mobile number, email, password and confirm password. By clicking on the sign-up button, member information gets stored into the database of the system. Member have the option to login if they already have an account.

GSMS

https://www.signup.com

SIGNUP

Full Name

Email

Password

Phone

signup

For login [click here](#)

Fig 3. 9 Signup Page UI of GSMS

Member Dashboard Page UI

The figure 3.10 is the user interface for member dashboard page of GSMS: Gym Subscription Management System. It is the first page that opens on the screen when the user logs into the website via any browser. From there member can see category and enroll by clicking enroll button.

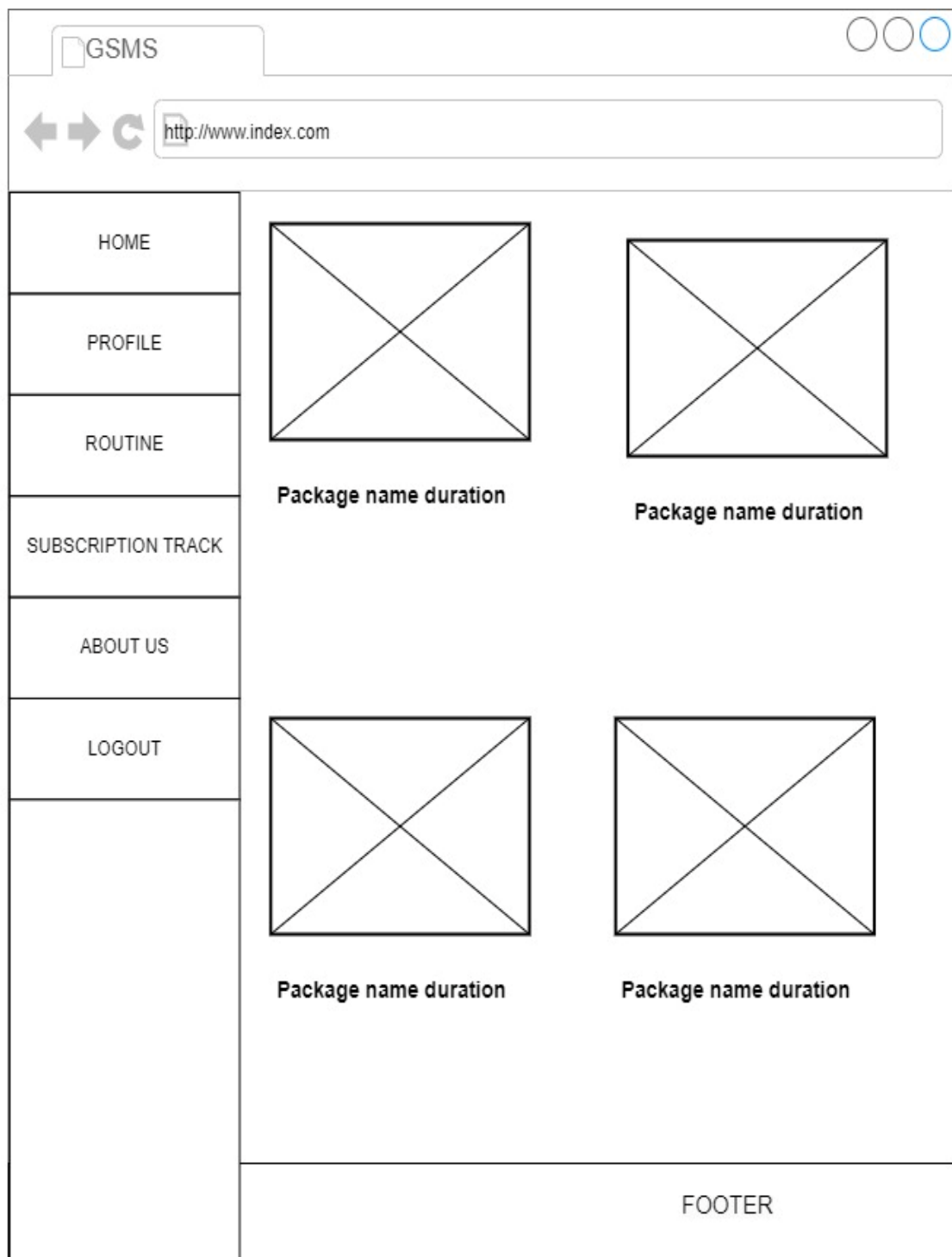


Fig 3. 10 Dashboard Page UI of GSMS

The Physical DFD of our proposed system (Gym Subscription Management System) is given below. A Physical Data Flow Diagram (DFD) visually illustrates how data moves within a system at a detailed, physical level. A detailed physical data flow diagram can facilitate the development of the code needed to implement a data system.



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:

1. 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')";
```

2. Login module

This module checks whether or not a user has registered with the system. If a member has already registered, he or she can explore the system. If you are not a member, you will be unable to access the system.

```
$sql="select * from admin where email='$e' and password='$p'";
```

```
$sql="select * from member where email='$e' and password='$p'";
```

3. Member module

For 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'";
```

For 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'";
```

For View all Members Detail

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

```
$sql = "select * from member";
```

4. Category module

For 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')";
```

For 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;";
```

For View all Category Detail

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

```
$sql = "select * from category";
```

5. Payment module

This module is used to insert, delete and view the data from payment table of database.

For delete: \$sql = "DELETE FROM payment WHERE pid='\$pid'";

For Insert: INSERT INTO payment (mid, cname, package_name, duration, price, date)
VALUES ('\$mid', '\$cname', '\$package_name', '\$duration', '\$package_price',
current_timestamp());

For View: \$sql = "SELECT member.mid, member.image, member.phone, member.name,
payment.cname, payment.package_name, payment.pid, payment.duration, payment.price,
payment.date

FROM member

INNER JOIN payment ON payment.mid = member.mid

ORDER BY payment.date DESC;";

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 password length is less or more than 10 characters	Eg: sumaasdadsn@1234	Display message: Error Output.	An Expected Error message is displayed.
7	if the password and confirmation password do not match		Display error message.	An Expected Error message is displayed.
Post-condition :Sign Up Failed				

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	Path: http://localhost/project/login.php	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 004 Add Category

Pre-conditions: Admin is login into Gym Subscription Management System				
Dependencies: login module				
S.N.	Test Case	Input	Expected Outcome	Output
1	Navigate to category page	Path: http://localhost/project/admin/category.php	category page should open	As expected i.e. admin is navigated to category page of system
2	Click Add Category Button	Button click	Add category Form page should open	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	As expected if all textboxes are filled and image validation is successful then it is accepted otherwise we will show an error. Error message.
4	Data insertion	Click on the add category	Admin should be able to add a category package into the system	As Expected i.e. Admin can add the question to the system
Post-conditions				
The category is successfully inserted into the database.				

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 005 System Test

Pre-conditions: Admin is login into Gym Subscription Management System				
SN	Test case	Input	Expected outcome	Output
1	Check with admin login	email:admin@gmail.com password:admin@1234	Successful login	Open dashboard
2	Check with delete and edit member from admin site	Click delete and edit button	Must be edited or deleted	Edit and delete messages should be displayed successfully.
3	Check with add categories	If required fields are filled. Then click the add category.	Successful entry of new category	Inserted data into the category table.
4	Check with delete and edit Subscription categories	Click edit or delete button	Must be edited or deleted	Edit and delete messages should be displayed successfully.

5	Check with update or ignore requested routine by admin	Click update and ignore button	Must be updated or ignored.	Update message should be displayed successfully.
6	Check member enrollment with verified, Reject and by admin	Click verified and Reject	Must be verified and rejected	Verified and message should be displayed successfully.
7	Check with logout	Click logout button	Successfully logout	Redirect to login

Table 6 Test Case 006 System Test

Pre-conditions: Member is login into Gym Subscription Management System				
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.

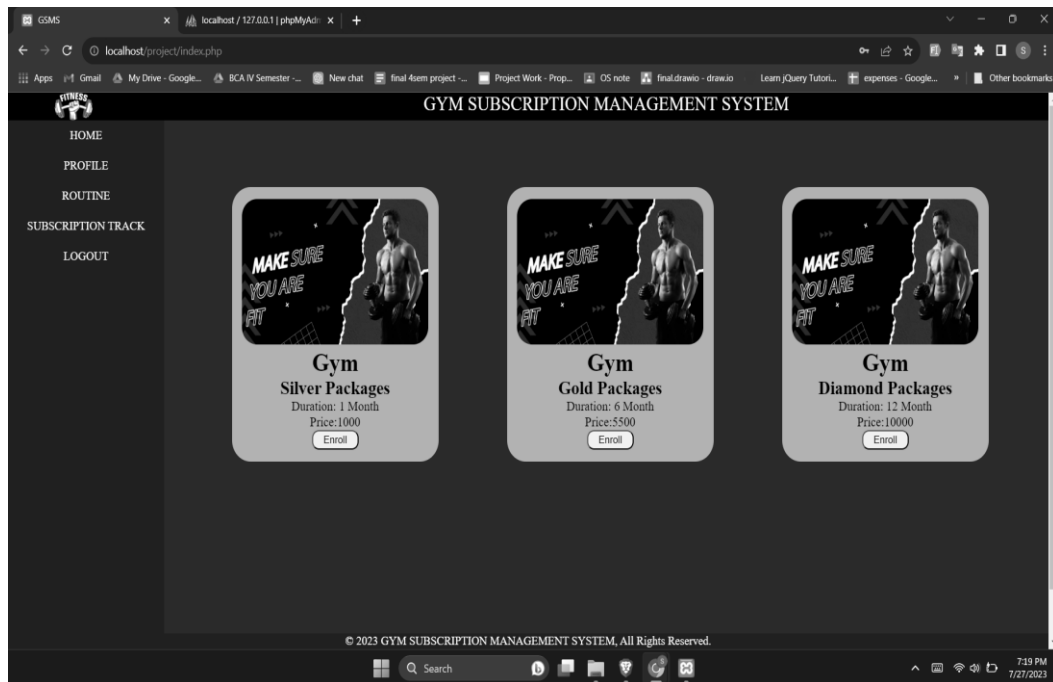
- We can add video tutorials and exercise guides.
- We may add schedule members for morning, midday, and evening workouts according on their needs.
- We can add image galleries and blogs to attract new members to the gym.
- Allow members to perform online payment as well.
- Generation of billing systems.
- Enhance the member interface by incorporating more interactive features

REFERENCES

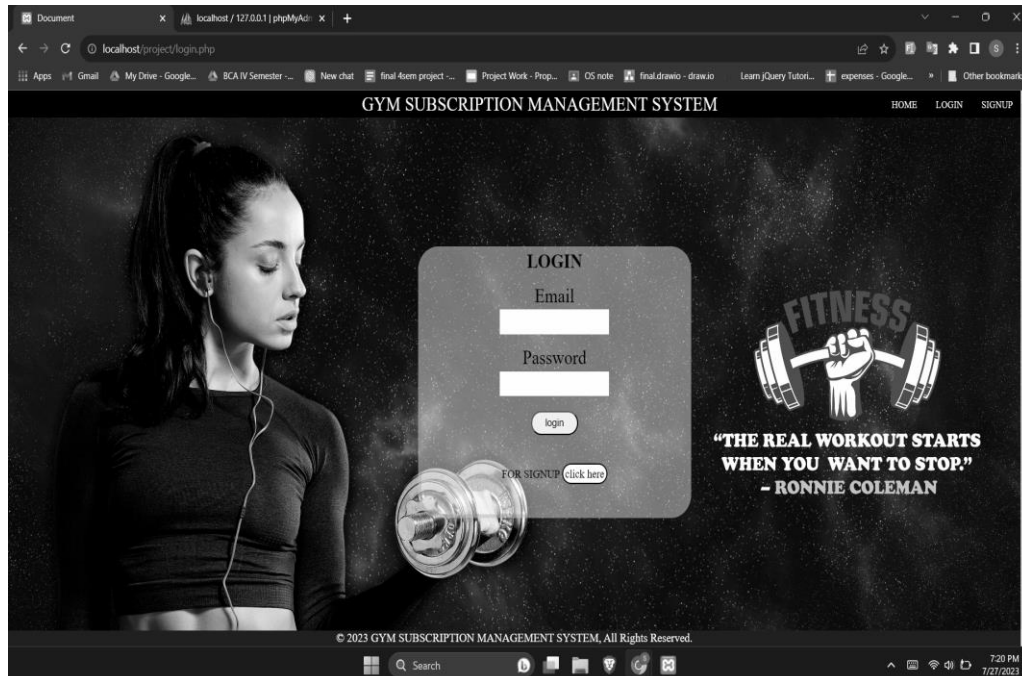
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APPENDICES

1. Member Home Page



2. Member Login page



3. Member Signup page

Document

localhost / 127.0.0.1 | phpMyAdmin

localhost/project/signup.php

GYM SUBSCRIPTION MANAGEMENT SYSTEM

HOME LOGIN SIGNUP

FITNESS

"ALL PROGRESS TAKES PLACE OUTSIDE THE COMFORT ZONE."
- MICHAEL JOHN BOBAK

MEMBER SIGNUP

Full Name

Email

Password
Only 10 character

Confirm Password

Phone no.

Signup

FOR LOGIN [click here](#)

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7:20 PM 7/27/2023

4. Admin Login Page

GSM

localhost/project/admin/login.php

GYM SUBSCRIPTION MANAGEMENT SYSTEM

FITNESS

"THE REAL WORKOUT STARTS WHEN YOU WANT TO STOP."
- RONNIE COLEMAN

ADMIN LOGIN

Email

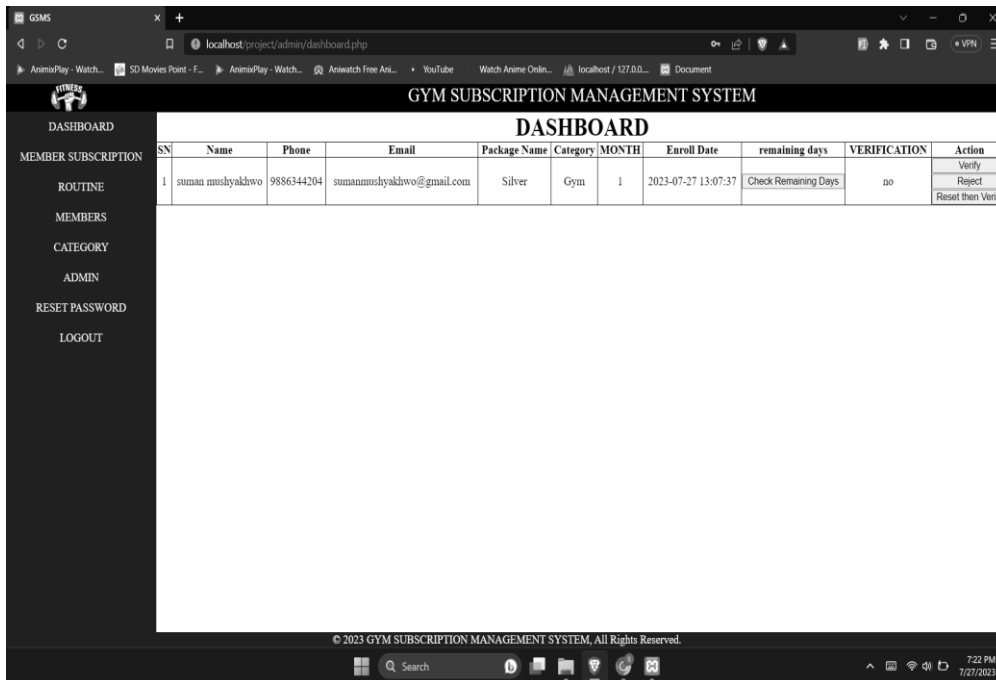
Password

login

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5. Admin dashboard

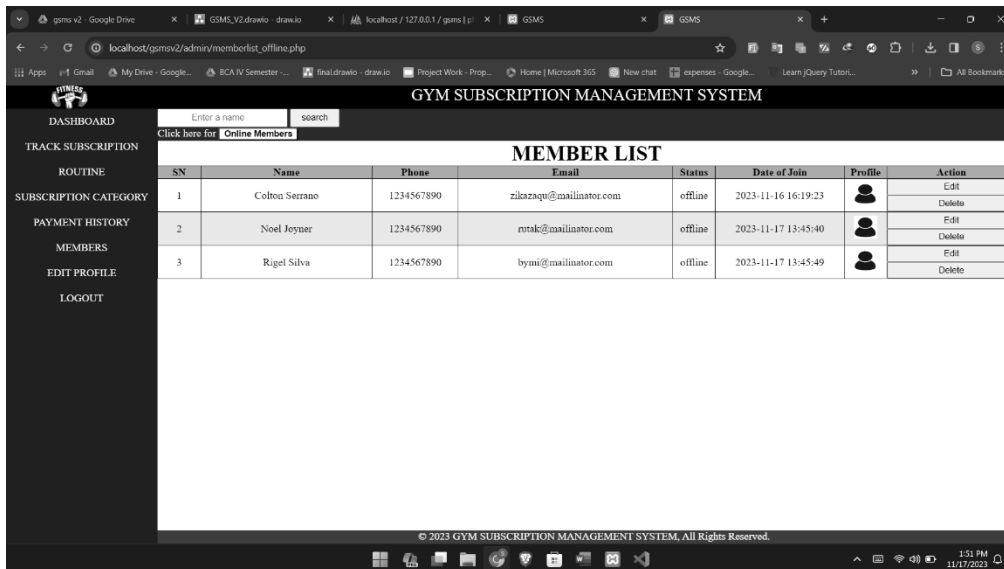


The screenshot shows the Admin Dashboard of the GYM Subscription Management System. The dashboard includes a sidebar with navigation links: DASHBOARD, MEMBER SUBSCRIPTION, ROUTINE, MEMBERS, CATEGORY, ADMIN, RESET PASSWORD, and LOGOUT. The main content area displays a table with the following data:

SN	Name	Phone	Email	Package Name	Category	MONTH	Enroll Date	remaining days	VERIFICATION	Action
1	suman mshyaktiwo	9886344204	sumanmshyaktiwo@gmail.com	Silver	Gym	1	2023-07-27 13:07:37	Check Remaining Days	no	Verify Reject Reset then Verify

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6. Member Management Page



The screenshot shows the Member Management Page of the GYM Subscription Management System. The page includes a sidebar with navigation links: DASHBOARD, TRACK SUBSCRIPTION, ROUTINE, SUBSCRIPTION CATEGORY, PAYMENT HISTORY, MEMBERS, EDIT PROFILE, and LOGOUT. The main content area displays a table with the following data:

SN	Name	Phone	Email	Status	Date of Join	Profile	Action
1	Celso Serrano	1234567890	zikaazq@mailinator.com	offline	2023-11-16 16:19:23		Edit Delete
2	Noel Joyner	1234567890	rutak@mailinator.com	offline	2023-11-17 13:45:40		Edit Delete
3	Rigel Silva	1234567890	bymn@mailinator.com	offline	2023-11-17 13:45:49		Edit Delete

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7. Routine Management Page

GYM SUBSCRIPTION MANAGEMENT SYSTEM

ROUTINE

SN	Name	Enroll Package	Routine Update	Routine Details
1	suman mushyakiwo	Gym	no	Update Routine Ignore
1	sumasdan mushyakiwo	Gym	no	Update Routine Ignore
1	asdasdasdasmushyakiwo	Gym	no	Update Routine Ignore
1	sugmikhman mushyakiwo	Gym	no	Update Routine Ignore
1	sswumsadasdan mushyakiwo	Gym	no	Update Routine Ignore
1	samacb sakuhad	Gym	no	Update Routine Ignore

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8. Routine list

GYM SUBSCRIPTION MANAGEMENT SYSTEM

ROUTINE

Chest
Squats, Deadlifts, Bench Press, Pull-Ups/Chin-Ups, Push-Ups, Lunges, Shoulder Press, Bent-Over Rows, Bicep Curls, Plank, Tricep Dips.

Shoulder
Squats, Deadlifts, Bench Press, Pull-Ups/Chin-Ups, Push-Ups, Lunges, Shoulder Press, Bent-Over Rows, Bicep Curls, Plank, Tricep Dips.

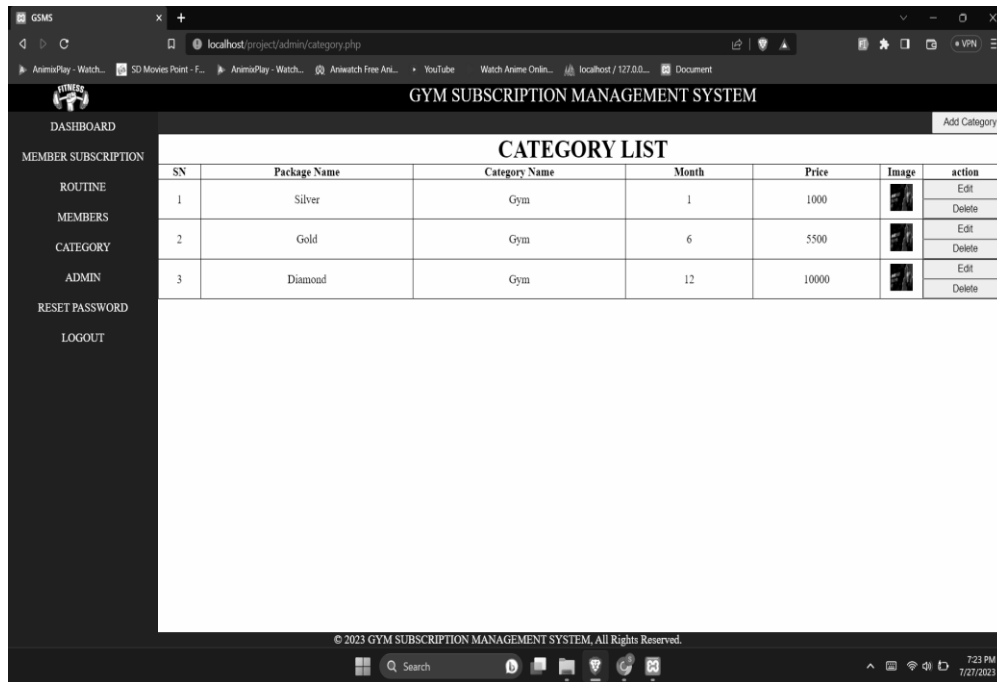
Back
Squats, Deadlifts, Bench Press, Pull-Ups/Chin-Ups, Push-Ups, Lunges, Shoulder Press, Bent-Over Rows, Bicep Curls, Plank, Tricep Dips.

Biceps
Squats, Deadlifts, Bench Press, Pull-Ups/Chin-Ups, Push-Ups, Lunges, Shoulder Press, Bent-Over Rows, Bicep Curls, Plank, Tricep Dips.

Triceps
Squats, Deadlifts, Bench Press, Pull-Ups/Chin-Ups, Push-Ups, Lunges, Shoulder Press, Bent-Over Rows, Bicep Curls, Plank, Tricep Dips.




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9. Category Management Page



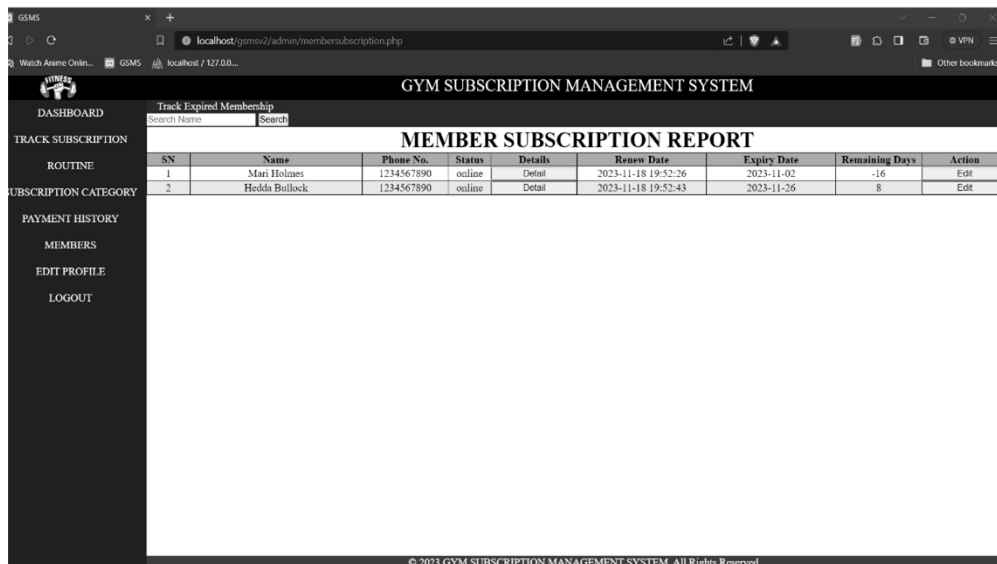
GYM SUBSCRIPTION MANAGEMENT SYSTEM

Category List

SN	Package Name	Category Name	Month	Price	Image	action
1	Silver	Gym	1	1000		Edit Delete
2	Gold	Gym	6	5500		Edit Delete
3	Diamond	Gym	12	10000		Edit Delete

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10. Subscription track



GYM SUBSCRIPTION MANAGEMENT SYSTEM

Track Expired Membership

Search Name Search

Member Subscription Report

SN	Name	Phone No.	Status	Details	Renew Date	Expiry Date	Remaining Days	Action
1	Mari Holmes	1234567890	online	Detail	2023-11-18 19:52:26	2023-11-02	-16	Edit
2	Hedda Bullock	1234567890	online	Detail	2023-11-18 19:52:43	2023-11-26	8	Edit

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