



G.M.D. ARTS, B.W. COMMERCE & SCIENCE  
COLLEGE, SINNAR.

DEPARTMENT OF COMPUTER SCIENCE  
A PROJECT REPORT ON

**“Online GYM Management System”**

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Savitribai Phule Pune University

2022-2023



M.V.P. Samaj's.

G.M.D. ARTS, B.W. COMMERCE & SCIENCE COLLEGE, SINNAR.

## CERTIFICATE


This is to certify that,

Sonawane Pooja Ashok

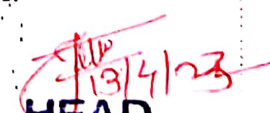
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Student of the B.Sc. Computer Science has satisfactory completed Project work on “**Online Gym Management System**”, towards partial fulfilment of degree course affiliated to Savitribai Phule Pune University for the Academic Year 2022-2023 at G.M.D. ARTS, B.W. COMMERCE & SCIENCE COLLEGE, SINNAR.

  
Project Guide

(SMT.N. V. LAHAMAGE) (SMT.N.V. LAHAMAGE)

  
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## 1. Abstract

The project titled as "Online Gym Management System" is develop using front end as PHP and back end MYSQL tool. Gyms are become the essential part of our lives and providing best exercise. In this web application admin can manage the customer an easier and more convenient way. This project also maintains the Customer details, to provide the valuable reports regarding progress of the gym member. Admin can login with their username and password. Admin can add and update Trainer details and work out details. Customer will register and login with their username and password. Customer can view exercise and work out timing etc.



## 2. Introduction

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

## **1.Motivation:**

A modern business needs to make data-driven decisions. If you want to succeed in the digital era, leverage your data. You have never had access to more data than you do right now. When organizations realize the full power of data, they can make better decisions every day. That means increased efficiency, speed, and quality of service. Collecting, understanding, and reporting data are all very different stages. You can't justify a higher budget or readjust your class schedule if you don't understand the data. That's why it's important that the proposed system can provide reports across the business in an easy-to-digest format.

## **2.Motivation:**

To make well-informed financial decisions, you need to know the inner workings of your business. A gym management system can offer you financial insights by producing reports and tracking your cash flow. It's essential that you know how much money is coming in and out of your business, whether that's monitoring multiple revenue streams or knowing the recurring revenue coming in every month. No need to compare confusing spreadsheets using a manual system; your management software should produce clear reports that allow you to track all transactions easily.

### **3.Motivation:**

By using your gym management system for email marketing, you can keep clients engaged. Automation and personalization are key to increasing engagement while at the same time easing the number of resources you need to run email campaigns. Segment your audience and target your email list with content that is relevant and valuable. You can create monthly newsletters, nurturing campaigns, or send out quick updates whenever you need to inform your members of your latest news. When choosing a gym management system, you will need to think about accessibility.



## **2.Problem Statement:**

People with intellectual disabilities (ID) have high prevalence of physical inactivity and high rates of preventable health conditions, including obesity and cardiovascular disease. Increased participation in fitness and wellness activities can improve their overall health and well-being. However, many fitness and wellness organizations do not know how to effectively serve this population nor how to fitness and wellness organizations do not know how to effectively serve this population nor how to support their inclusion into their programs.

## **3.Purpose/Objective and Goals:**

The main objective of the project is to develop software that facilitates the data storage, data maintenance and its retrieval for the gym. To store the record of the customers, the staff that has the privileges to access, modify and delete any record and finally the service. gym. To develop an user friendly system that requires minimal user training. Most of features and function are similar to those on any windows platform.

## **4.Literature Survey:**

A literature survey will be conducted to understand the existing online Gym Management System, their features, strengths, and weaknesses. This survey will help to identify the gaps in the existing systems and inform the design of the new platform.

## **5.Project Scope and Limitations:**

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

## **3. System Analysis**

### **3.1 Existing System:**

The gym is working manually. The current system is time consuming and also it is very costly, because it involves a lot of paperwork. The following are the reasons why the current system should be computerized:

- To increase efficiency with reduced cost.
- To reduce the burden of paper work.
- To generate required reports easily. Limitations of existing system.

### **3.2 Scope and Limitations of Existing System:**

Scope: To manually handle the system was very difficult task. But now-a-days computerization made easy to work.

Limitations: As the records are to be manually maintained it consumes a lot of time. Lot of paper work is involved as the records are maintained in the files & registers.

### **3.3 Project perspective, features:**

Project perspective: The online gym management system aims to provide a convenient and efficient way for customers to get easily booking.

Features: The system includes features such as booking, online payments, gym management, customer reviews, and gym history. It also offers real-time availability updates and the ability to cancel or modify bookings. Additionally, the system has an easy-to-use interface and responsive customer support.

### **3.4 Stakeholders:**

Customer

Employee

### **3.5 Requirement analysis:**

Requirement analysis for the online gym management system includes identifying customer needs, defining system functionality, and determining system performance requirements. It provides the potential for rapid development of incremental versions of the software.

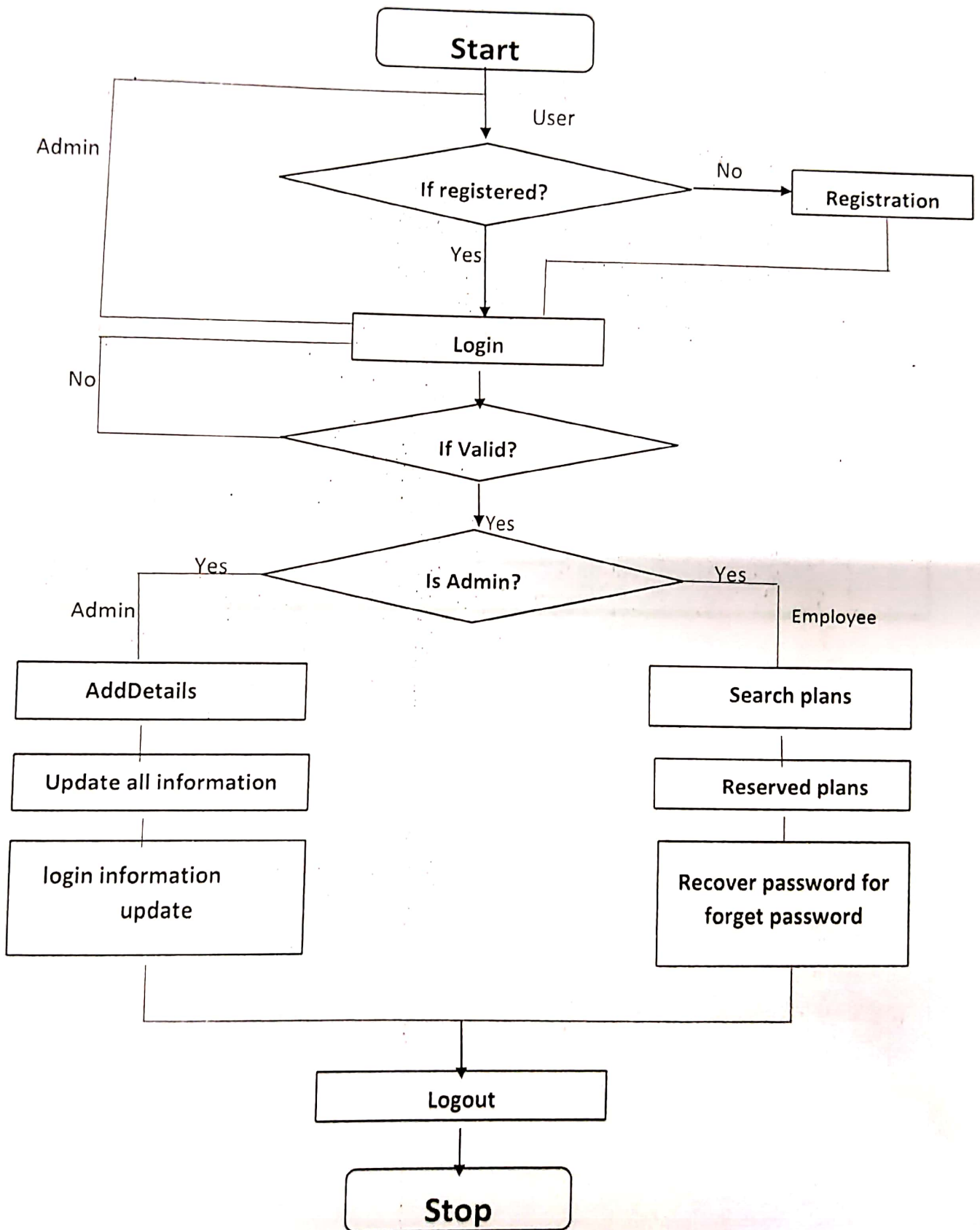
## 4. System Design

### 4.1 Design Constraints:

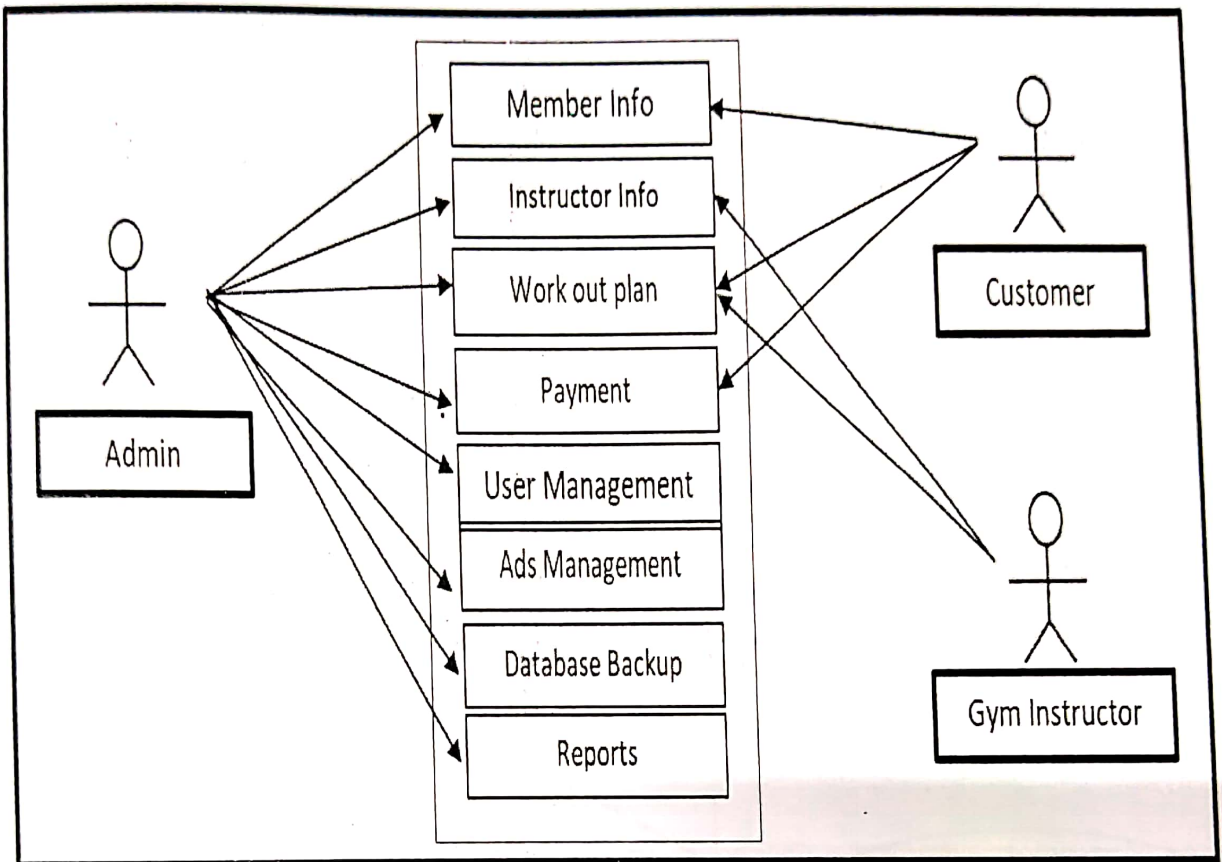
Common Diagram Containing Following- The Symbols used in ER diagram are as follow: ER Diagram describes data at rest, data being stored. Data relationship is the relation between the entities. Entity is an object that exist and its distinguishable from other objects. ER diagram shows data at rest. This means ER diagram does not show data flow.



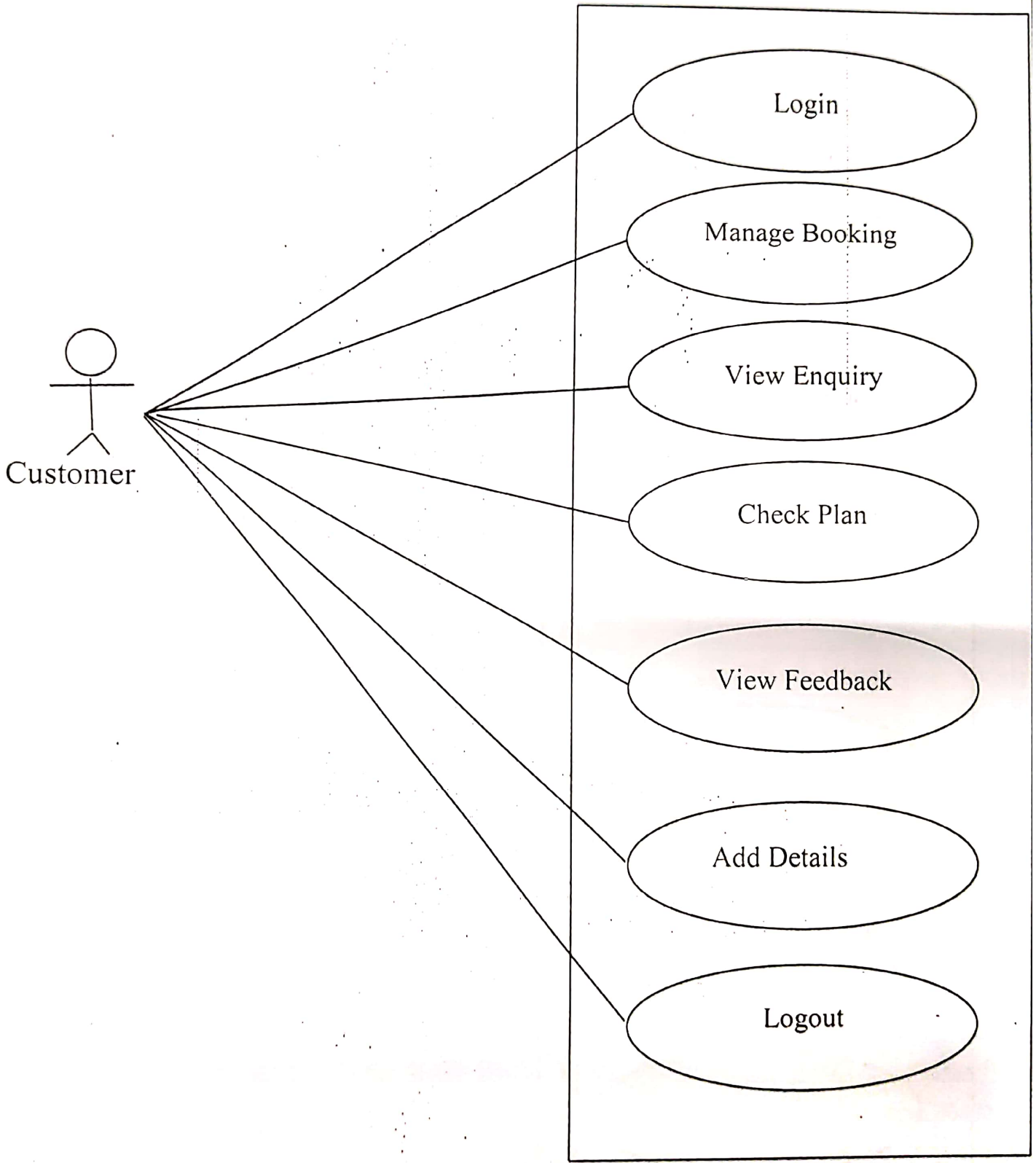
## 4.2 System Model: System Flow Chart:



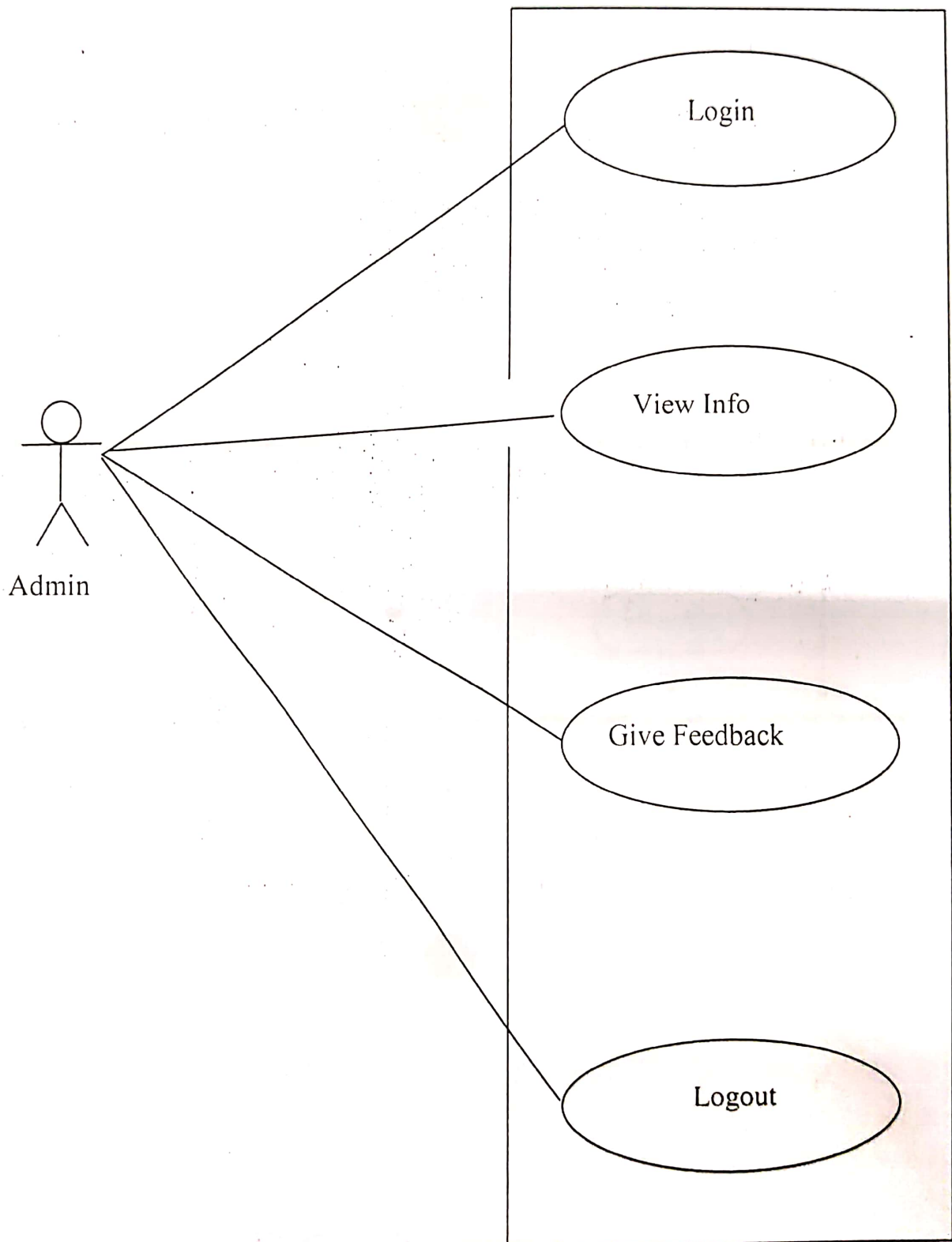
# ER Diagram:



Use case diagram for Customer:

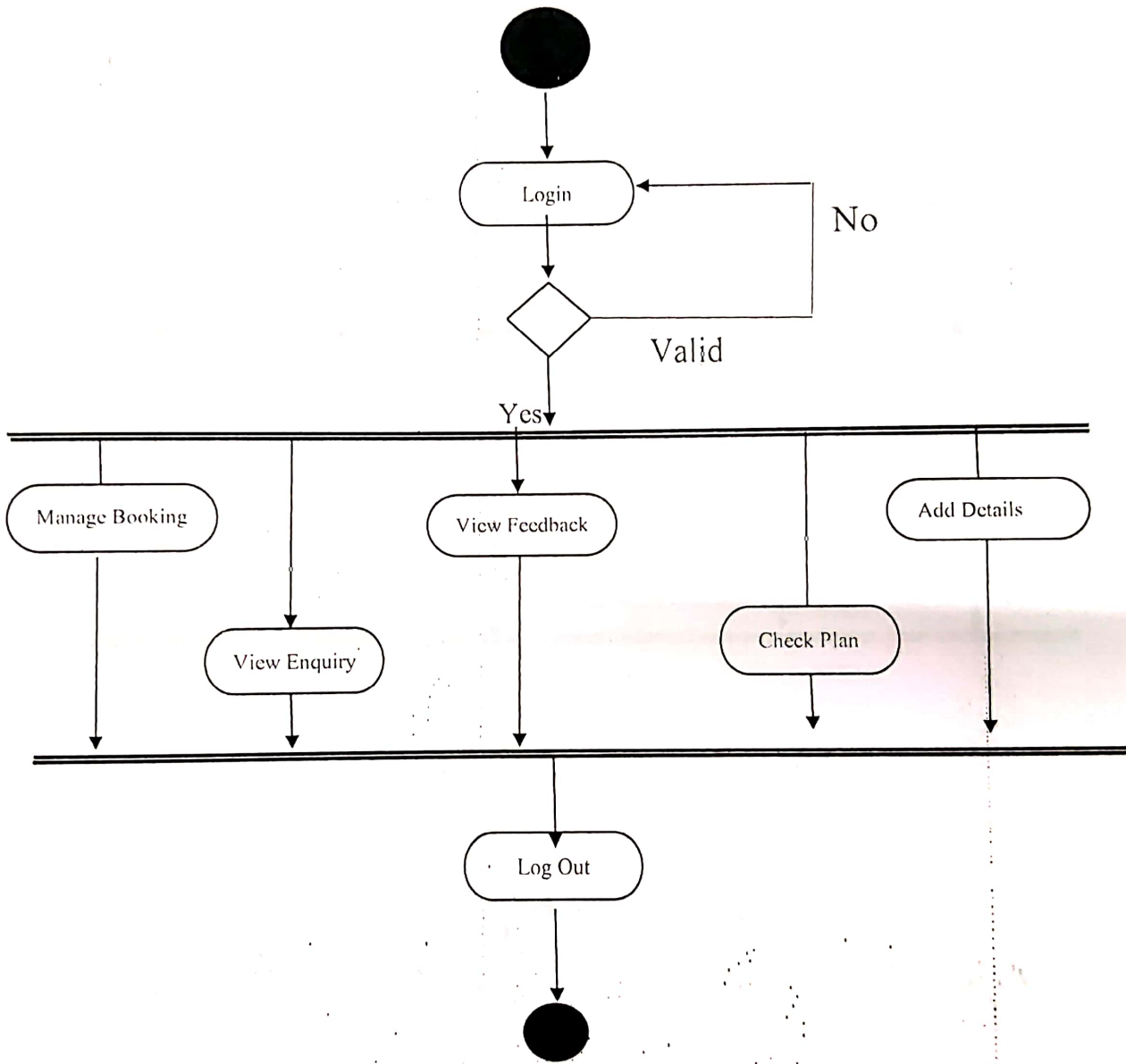


## Activity Diagram for Admin:

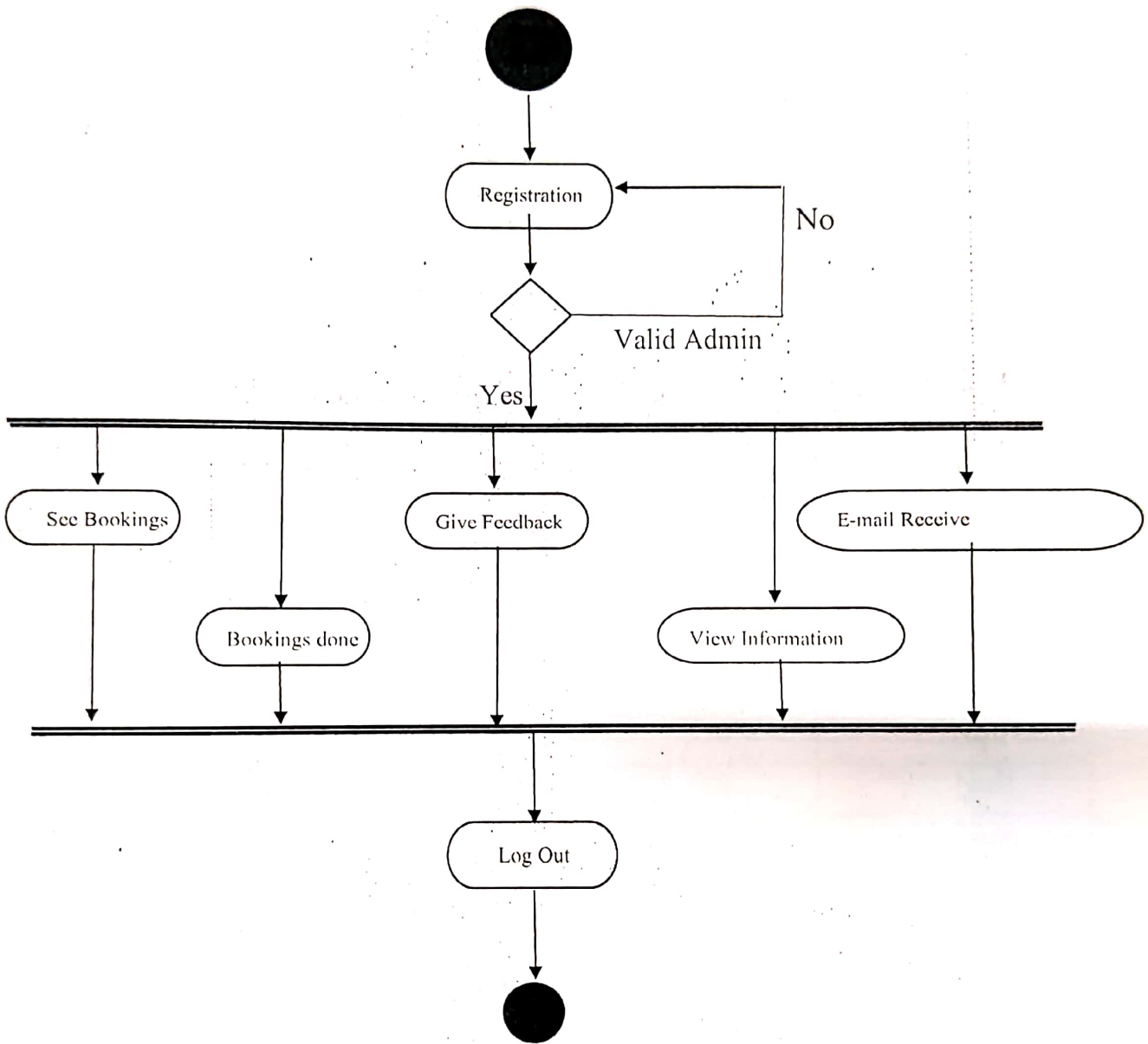




# Activity Diagram for Customer:



# Activity Diagram for Admin:



### 4.3 Data Model:

1) Table 1 – Customer/Membership

Field	Data Type	size	key
Customer ID	int	20	Primary key
First name	String	50	Null
Last name	String	50	Null
Gender	String	10	Null
Age	int	10	Null
Contact number	Int	10	Null
E-mail	varchar	20	Null
Password	varchar	10	Null

2) Table 2 – Payment

Field	Data Type	size	key
Payment ID	int	20	Primary key
Customer ID	varchar	20	Index Key
Transaction ID	int	50	Null
Total Amount	varchar	10	Null
Date	int	10	Null

2) Table 3 – Transaction Records

Field	Data Type	size	key
Transaction ID	varchar	50	Primary key
Transaction Name	varchar	20	Null
Customer ID	varchar	50	Index Key
Amount	varchar	10	Index Key
Date	int	10	Index Key

3) Table 4 – Schedule

Field	Data Type	size	key
Schedule ID	varchar	20	Primary key
Customer ID	varchar	50	Index key
Session	varchar	50	Null
Activity	varchar	10	Null
Date	int	10	Index key
Time start	varchar	10	Null
Timer end	varchar	20	Null

4) Table 5 – Plans

plans	Data Type of price	size	key
Free Fitness Gear Package	int	20	Primary key
3 Months Membership Package	varchar	50	Null
6 Months Membership Package	varchar	50	Null
4 Months Membership Package	varchar	10	Null

5) Table 6 – Workout Sessions

Workout	Data Type	size	key
ID	int	20	Primary key
Password	varchar	50	Index key



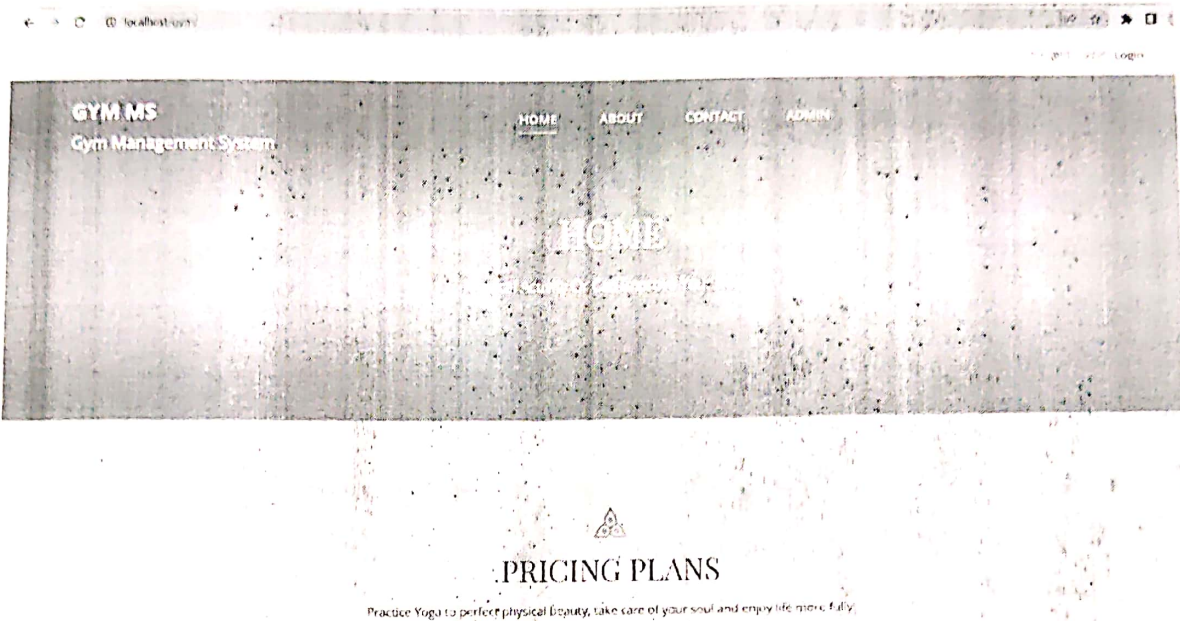
Duration	varchar	50	Null
Training Goals	varchar	10	Null
Start time	int	10	Null
End time	int	10	Null
Days	varchar	20	Null
Date	varchar	10	Null

6) Table 7 – Feedback

Field	Data Type	size	key
name	varchar	20	Null
e-mail	varchar	20	Null
message	varchar	150	Null

## 4.4 User Interface:

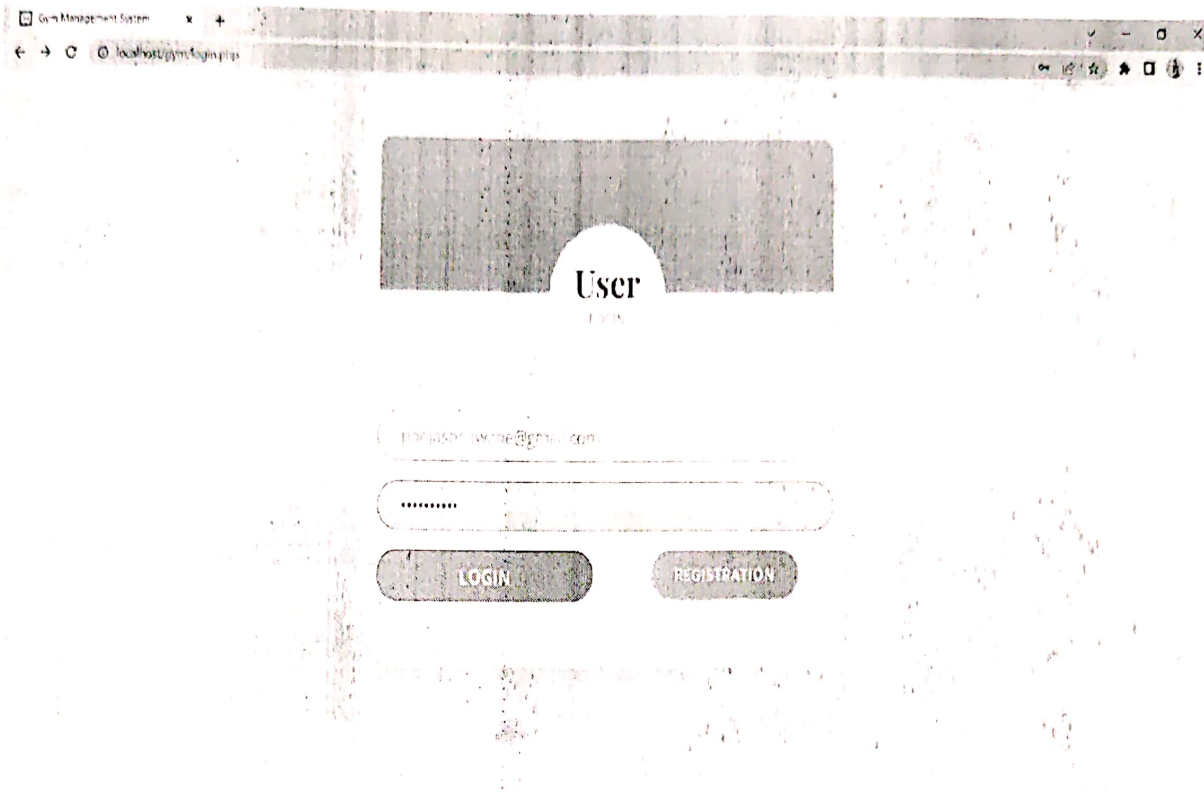
### ❖ Home:



### ❖ User Registration Page:



## ❖ User Login Page:

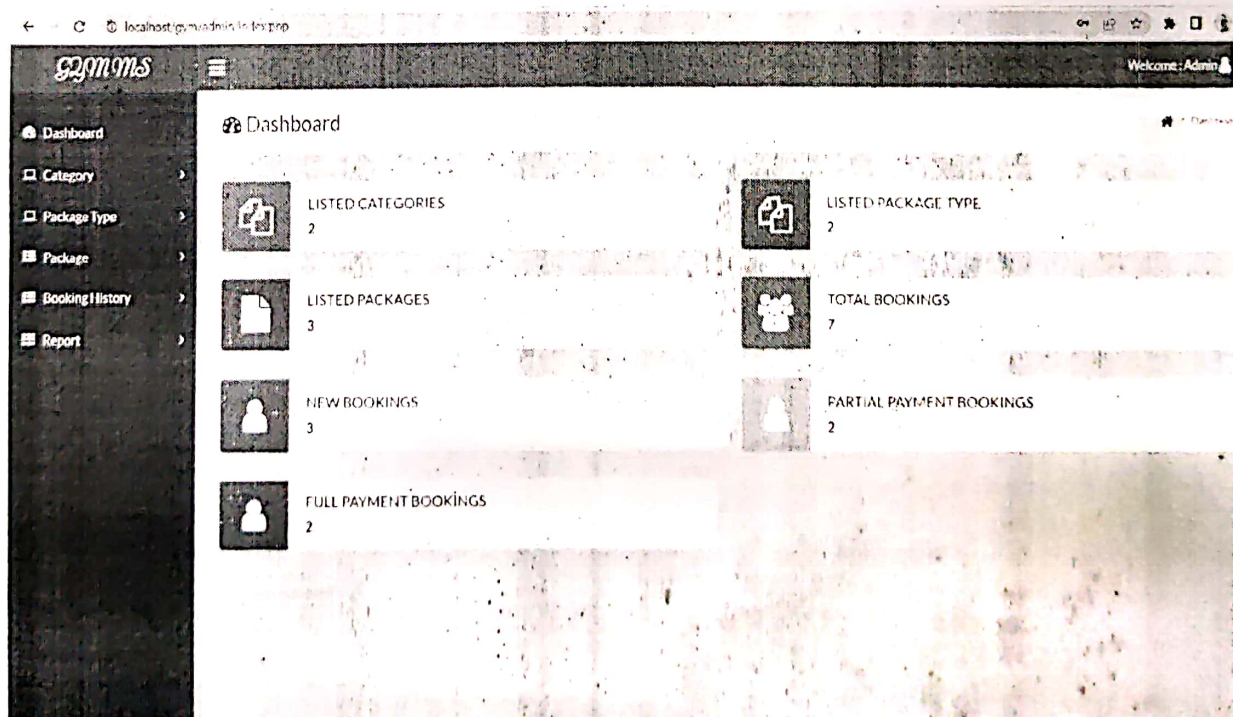




## ❖ Admin Login Page:



## ❖ Admin Dashboard:



## ❖ Bookings:

Partial Payment Bookings

Showing 1 to 2 of 2 entries

S.No	bookingid	Name	Email	bookingdate	PackageName	Title	Action
1	2	Abul	abul@gmail.com	2022-03-04 19:55:20	fygfg	Five Fitness Gear Package	<a href="#">View</a>
2	1	Abul	abul@gmail.com	2022-03-04 19:53:21	fygfg	3 Months Membership Package	<a href="#">View</a>

Showing 1 to 1 of 1 entries

Full Payment Bookings

Showing 1 to 2 of 2 entries

S.No	bookingid	Name	Email	bookingdate	PackageName	Title	Action
1	3	Anuj k	anuj.dogan@gmail.com	2022-03-04 09:44:10	fygfg	Months Membership Package	<a href="#">View</a>
2	7	John	john@test.com	2022-05-21 19:32:45	fygfg	Months Membership Package	<a href="#">View</a>

Showing 1 to 1 of 1 entries



localhost:8080/admin/report/booking.php

gymms

Welcome Admin

- Dashboard
- Category
- Package Type
- Package
- Booking History
- Report

### Booking Report

From Date:  To Date:

localhost:8080/admin/report/booking.php

localhost:8080/admin/booking-history-details.php?bookid=2

gymms

Welcome Admin

- Dashboard
- Category
- Package Type
- Package
- Booking History
- Report

Booking Date	2022-03-04 19:53:26	Name	atul
Email	atul@gmail.com	Category	Category1
Package Name	Ididid	Title	Free Fitness Gear Package
Package Duration	3 Months	Price	600
Description	Free Fitness Gear Complimentary One Pass		
Payment Type	Partial Payment		

- Dashboard
- Category
- Package Type
- Package
- Booking History
- Report

### All Bookings

Show 10 entries

Search

Sl.No	bookingid	Name	Email	bookingdate	PackageName	Title	Action
1	2	atul	atul@gmail.com	2022-03-04 19:53:28	fdgdfg	Free Fitness Gear Package	<a href="#">View</a>
2	6	Anujk	anuj.doca@gmail.com	2022-05-21 19:16:14	fdgdfg	Free Fitness Gear Package	<a href="#">View</a>
3	8	pooja	pooja@gmail.com	2023-03-05 13:54:21	fdgdfg	Free Fitness Gear Package	<a href="#">View</a>
4	1	atul	atul@gmail.com	2022-03-04 19:53:21	fdgdfg	3 Months Membership Package	<a href="#">View</a>
5	3	Anujk	anuj.doca@gmail.com	2022-03-08 09:44:18	fdgdfg	3 Months Membership Package	<a href="#">View</a>
6	7	John	john@test.com	2022-05-21 19:32:45	fdgdfg	3 Months Membership Package	<a href="#">View</a>
7	9	pooja	pooja@gmail.com	2023-03-05 13:54:20	fdgdfg	3 Months Membership Package	<a href="#">View</a>

Showing 1 to 1 of 1 entries

Previous **1** Next

## ❖ Booking History:



Booking Date	2023-03-05 13:54:21	Name	0000
Email	0000@gmail.com	Category	Category 1
Package Name:	fdgd'g	Title	Free Fitness Gear Package
Package Duration	3 Month	Price	600
Description	Free Fitness Gear Complimentary OnePass		
PaymentType	Payment not made yet		

## ❖ Plans:

← → C localhost:3000/index.php

### PRICING PLANS

Practice Yoga to perfect physical beauty, take care of your soul and enjoy life more fully

FREE FITNESS GEAR PACKAGE	MONTHS MEMBERSHIP PACKAGE	YEARLY MEMBERSHIP
600	800	12000
Free Fitness Gear Complimentary OnePass	Book Six Days Different Trainers Class designed for fast Weight Loss Weight Gain with combination of Latest Workouts in addition to complimentary access to gym area with personal training	High High
BOOKING NOW	BOOKING NOW	BOOKING NOW

## ❖ About:



# ABOUT GYM MANAGEMENT SYSTEM



## ABOUT US

We are not just a bunch of curious and intellectual professionals who out of boredom from the monotonous courses established Brand Beavers in Mumbai to emerge out of 4 members. Our team of entrepreneurs, thinkers, strategists, designers and technicians will help you to emerge as an effective and disruptive brand all over the globe. Our brainstorming and amicable individuals go beyond their comfort zone to satisfy the customer's requirements.

## 5. Implementation Details

### 5.1 Software and hardware specification: -

#### Software: -

- (1) Google chrome (using runtime the project).
- (2) Notepad (used as editor).
- (3) Internet explorer (using runtime).
- (4) 64-bit Windows Operating System.

#### Hardware: -

- (1) HP Pavilion laptop (used as server).
- (2) DESKTOP-8M8NEI
- (3) Ram.
- (4) mouse.
- (5) keyboard



## 6. Output and Reports Testing

After performing the validation testing the next step is output testing of the proposed system since no system is useful if it does not produce the required output in the specific format. The outputs generated or displayed by the system under consideration are tested by asking the users about the formats required by them.

## 7. Conclusion and Recommendations

The "GYM MANAGEMENT SYSTEM" is successfully designed and developed to fulfilling the necessary requirements, as identify in the requirements analysis phase, such as the system is very much user friendly, form level validation and field level validation are performing very efficiently. The new computerized system was found to be much faster and reliable and user friendly then the existing system, the system has been designed and developed step by step and tested successfully. It eliminates the human error that are likely to creep in the kind of working in which a bulk quantity of data and calculations as to be processed. The system results in quick retrieval of information that is very vital for the progress any organization. Cost is minimized in case of stationary. Burden of manual work is reduced as whenever transaction takes place, there is a no need to record it in many places manually.

## 8.Future Scope

The health and fitness industry has become extremely diverse in the range of services and facilities it offers; varying from large scale leisure centers and gymnasiums, to individual personal trainers who travel from one client to the next in their cars., Some services specialize in offering structured classes, others are informal; some cater for a particular demographic, and others for anyone.

## 9. Bibliography and References

[www.google.com](http://www.google.com)

[www.w3schools.com](http://www.w3schools.com)

[www.php.net](http://www.php.net)

[www.wikipedia.com](http://www.wikipedia.com)

Thank  
you

