

# Gym Management System Project Report

## Introduction

### Project Overview

The Gym Management System is designed to streamline the administrative tasks and member management for gyms. This system provides functionalities to manage memberships, track payments, and manage trainer information.

### Objectives

- Develop a user-friendly system for gym management.
- Implement a reliable database to store and manage member and trainer information.
- Facilitate efficient tracking of memberships and payments.

## Project Features & Objectives

### Main Features

1. **Gym Management:** Admins can add, update, and delete gym information.
2. **Member Management:** Admins can add, update, and manage member details.
3. **Payment Management:** Track and manage membership payments.
4. **Trainer Management:** Add and manage trainer details.

### Objectives

- Add and view different gyms.
- Manage member details and view their status.
- Handle payments.
- Manage trainer information.

## Design & Connectivity

### Backend Design

The backend is developed using Python and SQL for database management. The database schema includes tables for gyms, login, members, payments, and trainers.

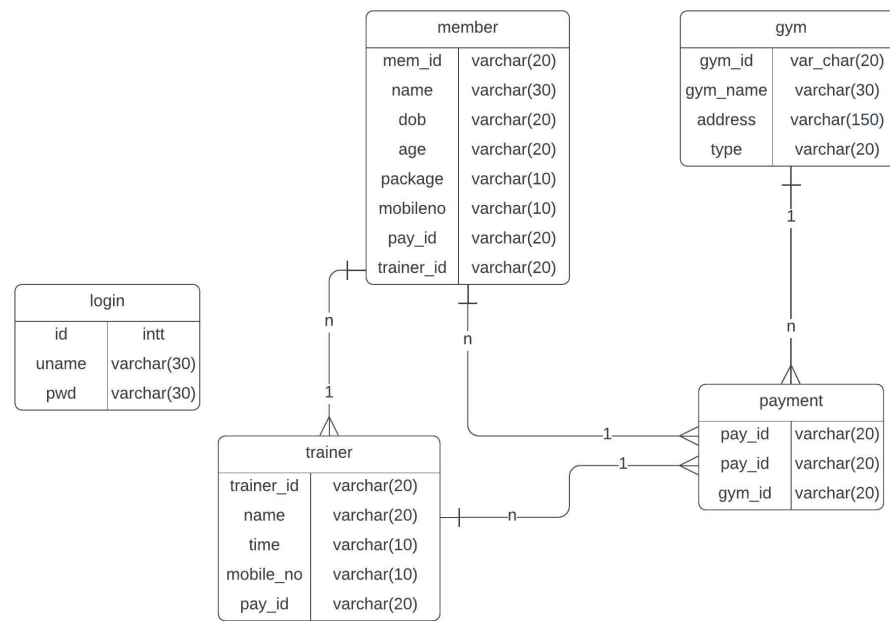
### Frontend Design

The frontend uses HTML, CSS for a responsive and interactive user interface. PHP is used to handle server-side scripting and connectivity between the frontend and backend.

### Database Design

- **ER Diagram:** Illustrates the relationships between entities such as gyms, members, payments, and trainers.
  - One-to-Many (1-n): One gym can have many members.
  - Many-to-Many (n-n): Members can have multiple trainers and vice versa.
  - Many-to-One (n-1): Many payments can be associated with one member.

## Gym Management System



## Implementation

### Development Tools

- **Backend:** Python, SQL
- **Frontend:** HTML, CSS, JavaScript
- **Server-Side:** PHP
- **Database:** MySQL

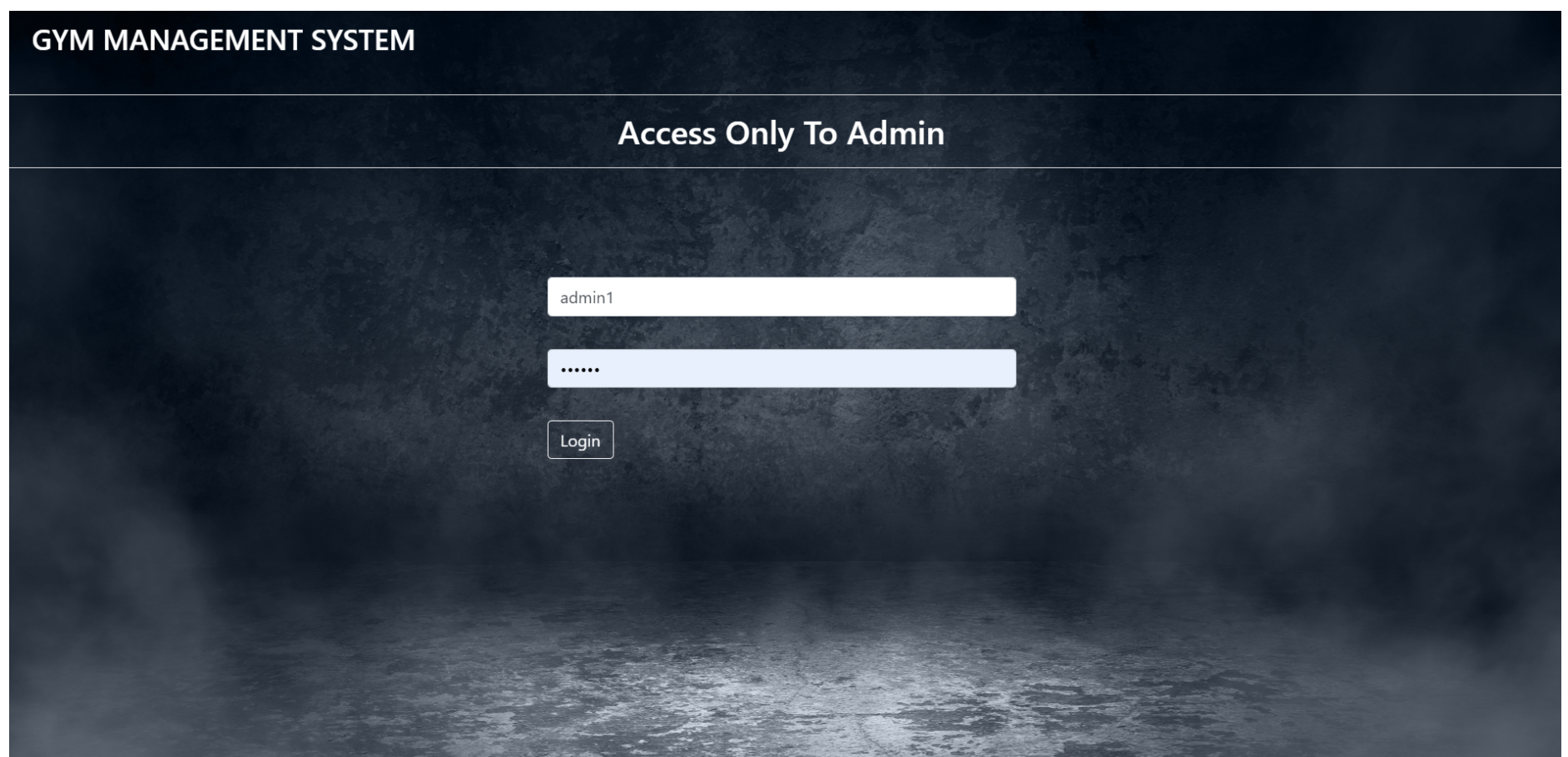
### Functionalities

- **Index:** Interface for the admin to login and redirect to the admin dashboard.
- **Admin Dashboard:** Interface for admins to manage gyms, members, payments, and trainers.

## Chapter: Output Snapshots

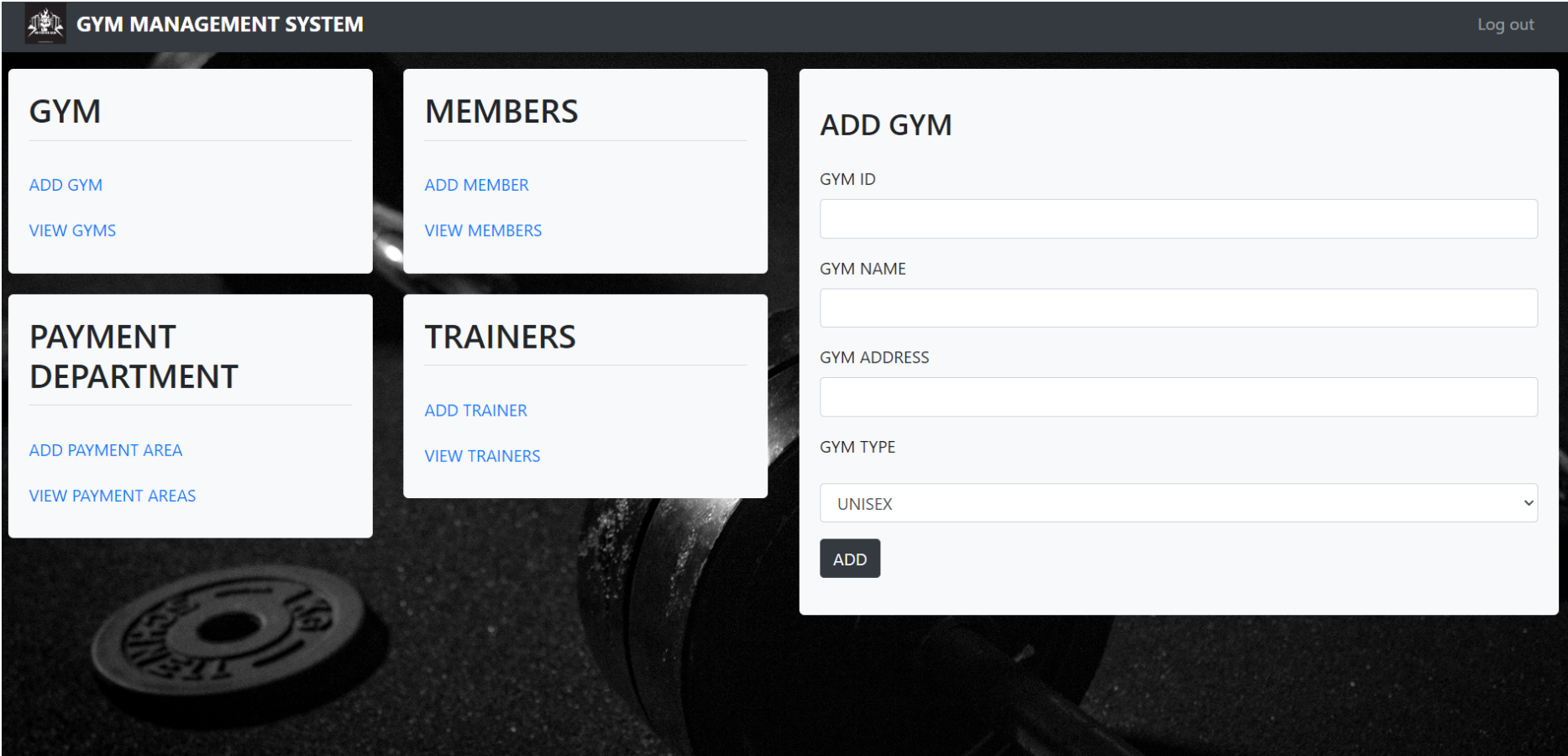
### Index

- Screenshots of the admin dashboard showing gym, member, payment, and trainer management interfaces.



### Dashboard

- Screenshots of member management features including adding, updating, and viewing member details.



### Conclusion

The Gym Management System effectively addresses the administrative needs of gyms, providing a seamless and efficient way to manage members, payments, and trainers. Future enhancements may include mobile app integration and advanced analytics for better decision-making.