PARSHWANATH CHARITABLE TRUST'S

A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering

Data Science

CSE DATA SCIENCE

GYM MANAGEMENT SYSTEM

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Project Guide
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Introduction

The Gym Management System is designed to streamline the management of gym operations, including memberships, schedules, and payments. It offers an efficient platform for managing trainer schedules, and automating administrative tasks.

Problem Identified :

Difficulty in managing gym memberships.

Clashes in schedules and payments manually.

Solution Proposed :
Develop a digital gym management system

class schedules, and payment processing.

Objectives

1. Efficient Member management.

2. Quick Class scheduling.

3. To Ensure Best Facility management

4. Hassle Free Online Billing managements

Scope

1. can be applied in gyms and fitness centers of all sizes, ranging from small local gyms to large chain fitness franchises

2. can manage members profiles, track memeberships and handle renewals through admin dashboard.

3. can manage comprehensive billing and invoicing processes, including automated payment reminders, while tracking revenue streams from membership and additional services.

Feature /Functionality

1. Feature 1 : Membership Management

A comprehensive system to manage member registrations, renewals, and cancellations. It will track membership details, provide notifications for renewals, and allow easy access to membership plans.

2. Feature 2 : Payment Processing

An integrated payment gateway to handle membership fees, class bookings, and other transactions. It will support multiple payment methods and provide invoices and receipt for members

Feature 3 : Admin Dashboard

A centralized admin dashboard for gym managers to oversee operations, view member details, manage schedules, and monitor overall gym performance.

Outcome of Project

1. Admin can log in to the system using unique credentials username and password.

2. Admin can view and Manage user profile by, including personal details and membership plan.

3. Admin can search for the available classes and personal training sessions by trainer preference for the user to facilitate scheduling and member registrations.

Technology Stack

Frontend (GUI):

1. JSP (Javaserver Pages): For building dynamic web pages and integrating Java with HTML.
2. Html5 & CSS3: For structuring and styling the pages.
3. Javascript: For client-side interactivity.

Backend
1. Java (Services and JSP)
Java will be the backbone for handling server-side logic.
OJSP/Services: for processing requests, handling user sessions, and interacting with the database.
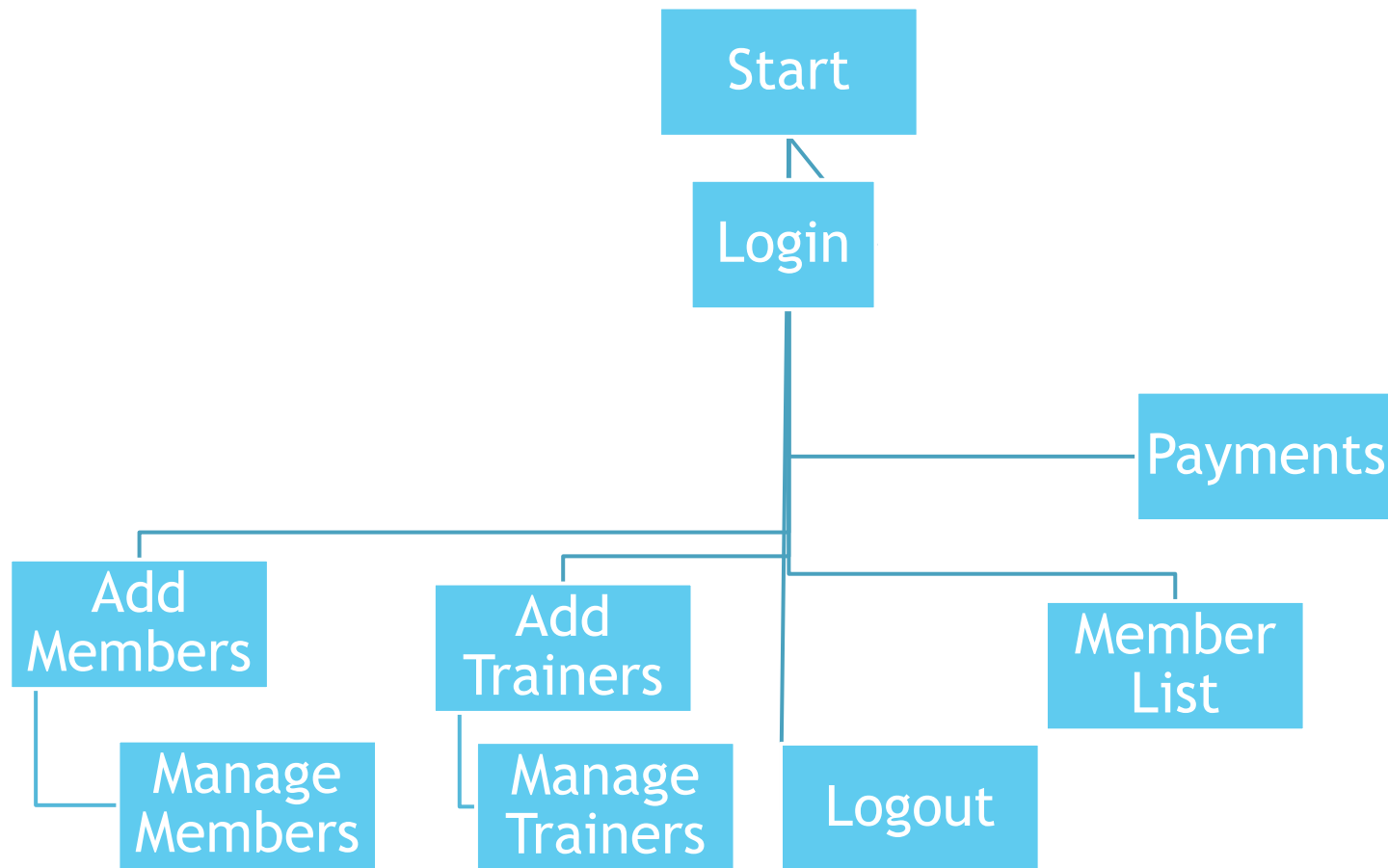2. MySQL:
•Relational database for storing and managing user data, membership details, bookings, payments, etc.
3. JDBC (Java Database Connectivity):
•For connecting Java to the MySQL database and executing SQL queries.

7. Block Diagram

Thank You...!!