

## **P1 - Team 4 : GYM Management System**

### **Background**

Inefficiencies arise from the difficulties gyms have in managing data across numerous branches, customers, and resources. By streamlining these processes, an integrated management system can increase customer customisation and facilitate precise, data-driven decision-making. These systems manage a lot of data about client connections, branch administration, and customized workout experiences. Gyms may save time, improve company management, guarantee accuracy, and automate the customization of client training and membership benefit reports for improved decision-making by centralizing and integrating these processes.

### **Objectives of the Proposed System:**

- a) Automate the process of Different branches of a gym.
- b) To give managers an overview of all the branches at one platform hasslefree.
- c) Managing Trainers and Members at a branch of the gym.
- d) Improving member experience by providing personalized plans
- e) Scheduling and Booking of different class
- f) Provides detailed reports and analytics on various aspects of the gym's operations

### **Advantages of Proposed System:**

- a) Assets(like equipment, etc.) available at a particular branch can be managed easily.
- b) Stocks of the products can be managed.
- c) Membership of Members can be managed more conveniently.
- d) Cost Reduction, increase the operational efficiency, reducing the need of manual labor and minimizing errors.
- e) Gives a comprehensive view of the gym business that provides the identification of the limitations and enables strategic management.

## **Scope**

The goal of the Gym Management System (GMS) is to automate and streamline gym operations by uniting several branches onto a single platform. With the help of this system, managers will be able to easily supervise every branch and guarantee uniform operations and resource allocation. It will make it easier to manage trainers and members at each branch effectively, streamlining administrative duties like scheduling, membership renewals, and creating customized exercise regimens based on each person's preferences and goals.

The tracking system will make sure that gym resources are used as efficiently as possible. Additionally, it will control the stock levels of products sold at the gym, such as apparel and supplements, and manage gym assets, such as equipment tracking and maintenance schedules, to make sure that inventory is effectively managed and restocked as needed.

The system will provide comprehensive reporting and analytics on a range of gym operational topics, offering insightful data on revenue production, equipment utilization, membership trends, and trainer performance. The management will be able to make more informed strategic decisions thanks to these data-driven insights, which will enhance gym performance overall. The GMS will decrease the need for manual labor, limit human error, and boost operational efficiency by automating administrative processes like membership administration and trainer scheduling. This will ultimately result in cost savings.