* 1. **GENERAL INTRODUCTION**

In the past years, the world has expressed a sustained interest in fitness as an essential part

of overall health and wellness. People all over the world are making changes, both small

and large, to eat healthier, exercise more, and improve their mental health. This is a cloud

based Integrated software for complete Health Club management with features like

Membership Management, Marketing Management, Reservations Management, Automatic

Attendance Tracking, Event Management, virtual trainer and helpdesk, Class Management

and auto class scheduling.

This project aims to automate health club management system, for example the admission

process in gyms and selecting a trainer is difficult. Sometimes it is difficult to get a desired

slot timing. Being healthy is the first thing to be kept in mind because most of the time our

attitude depends on how we feel. It is hard to get admission in health club when slots are

full. This health club management system will help to overcome such problems by booking

the desired slot online and pay fees by electronic money transfer. In this fitness club system,

there is 3 entity namely, Admin, Member, and Trainer. Admin can login using credentials.

Admin can manage packages by adding cost, discount and deleting old packages. Admin

can manage member details by adding, updating and deleting. Admin can view the package

details of an individual member. Admin can also view the member’s attendance taken by

the trainer. Members can login using credentials. They can view their profile and list of

trainers. They can also view the package and payment details. Attendance management is

done using AI, it works with both face recognition and biometric system. This system marks

attendance from multiple locations with a cloud stored database. They can make payments

via card details. A trainer can log in using credentials. They get notified by upcoming classes

that have been already scheduled for the members .It also manages the staff operations in

the health club with ease. Dynamic employee scheduling, commission programs, and

notifications for trainers and class instructors to help keep employees organized

A pre-trained chatbot which can handle all day today activities with clients and will guide

users through different workouts and also provide a suitable diet chart to be followed as per

the selected fitness goal. The chatbot will also present different exercise routines based on

the intensity level the user chooses and is comfortable with. All general enquiries related to

all branches is also possible through this system Can book and enquire about available slots

for special activities like pool, yoga etc.

Reception desk will have a club kiosk capable of handling club membership management

and registration. A great solution for clubs with 24/7 access controls for client acquisition

at any time with the help of virtual assistant. Members can operate the kiosk either by using

text or voice, according to their preferences.

Automated Notification system to staff and clients with this automation module, admin can

communicate special offers, class schedules, payment confirmations, contract due dates, and

can automate the sign-up process via the client portal for more member convenience.