KULLIYYAH OF INFORMATION TECHNOLOGY & COMMUNICATION

INFO 3305 WEB APPLICATION DEVELOPMENT

SEMESTER 2, 2022/2023

SECTION 1

GROUP PROJECT PROPOSAL

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PREPARED BY GROUP 3

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PROJECT TITLE : GYM MANAGEMENT SYSTEM

INTRODUCTION

Since the first nationwide Movement Control Order, businesses have had to offer virtual services in order to survive. Businesses and consumers continue to incorporate virtual ways of doing things as they embrace the convenience and benefits, even if the economy has recovered and the nation is now posting high vaccination rates. Many gym goers are returning, heaving dumbbells and hopping on treadmills, more than two years after the pandemic compelled fitness addicts to do their routines at home. A comprehensive application management system that supports the gym administration and aids in effective scheduling is, in essence, a gym management system. We are developing a web application for gym management, and the goals of this gym management web application are to ensure people can keep their daily lives healthy. The purpose of developing this web application is to align with Sustainable Development Goal 3, which is to promote mental health and wellbeing. This web application that we developed, called a gym management system, aids companies in streamlining, organising, and managing their activities. The majority of gym management systems include both an employee-facing and a client-facing portal, even though both parties can have a wide range of functionality. The user of our system can easily use our web application to do the online booking session for their training without going out physically. Therefore, our gym management application was developed with the intention of making it easier for gym management, which includes registration for new users, and booking based on desired day and time. The information about a registered user, booked dates, times, and their feedback or complaint about the gym can all be saved in our system in various ways. To obtain more offers, the user can easily register in the system, book the gym rooms, save the schedule dates, and change or delete their information on the profile page.

OBJECTIVES

One of our key goals is to streamline and organise gym activities by implementing a comprehensive gym management system. This system will give user-friendly interfaces to both staff and clients, each with a wide range of features adapted to their individual needs. By supporting effective communication and task management, our solution will assist gym management in optimising their operations and improving the overall user experience.

On the other hand, the significant goal of our project is to enable customers to arrange training sessions online, reducing the necessity for actual visits to the gym for scheduling purposes. Users will be able to explore available training slots, select their preferred day and hour, and select their favourite teacher via our web application. The system will save information about registered users, booked days, hours, and trainers, enabling a smooth and fast booking procedure.

We also want to make it easy for users to maintain their profiles and appointments. Users will be able to update their personal information, choose different trainers for their sessions, reschedule or cancel appointments, and make online payments for their gym sessions. By providing these capabilities, we enable customers to take control of their fitness journey and tailor their experience to their interests and needs.

FEATURES AND FUNCTIONALITIES OF THE WEB APPLICATION

A web application is a component of software that can be used and accessed using a web browser. It makes use of web technology to offer consumers a variety of features and functionalities. These programs are made to be accessed online, enabling users to access and utilise them from a variety of devices, such as computers, smartphones, and tablets. A good web application is one that offers a host of features and functionalities that enhance the user experience and provide valuable services. Listed below are the features we have decided to include in developing our web application:

1. **Homepage**

   This page will display the gym's location, pictures of the gym to convince potential clients, contact us section, and operating hours. Visitors to the gym management system website will be able to get more information about the gym through this page. This will in turn build trust between client and business owner.

2. **Registration Page**

   On this page, a female IIUM student can create an account that will require their personal data. In particular, when it comes to digital client acquisition, the registration form is the initial point of contact for potential customers with your company. When registering for an event, program, membership, list, etc., a person fills out a form with a number of fields and submits it to a company or another person.

3. **Profile Page**

   Only the user's full name, phone number, email address, and matric ID will be shown on this page. These are the informational pieces that were gathered during the registration phase. Users can make any necessary updates to their profile page at any time.

4. **Booking Page**

Users can select their chosen day and hour on this page to reserve their gym session as well as the gym room of their selection.

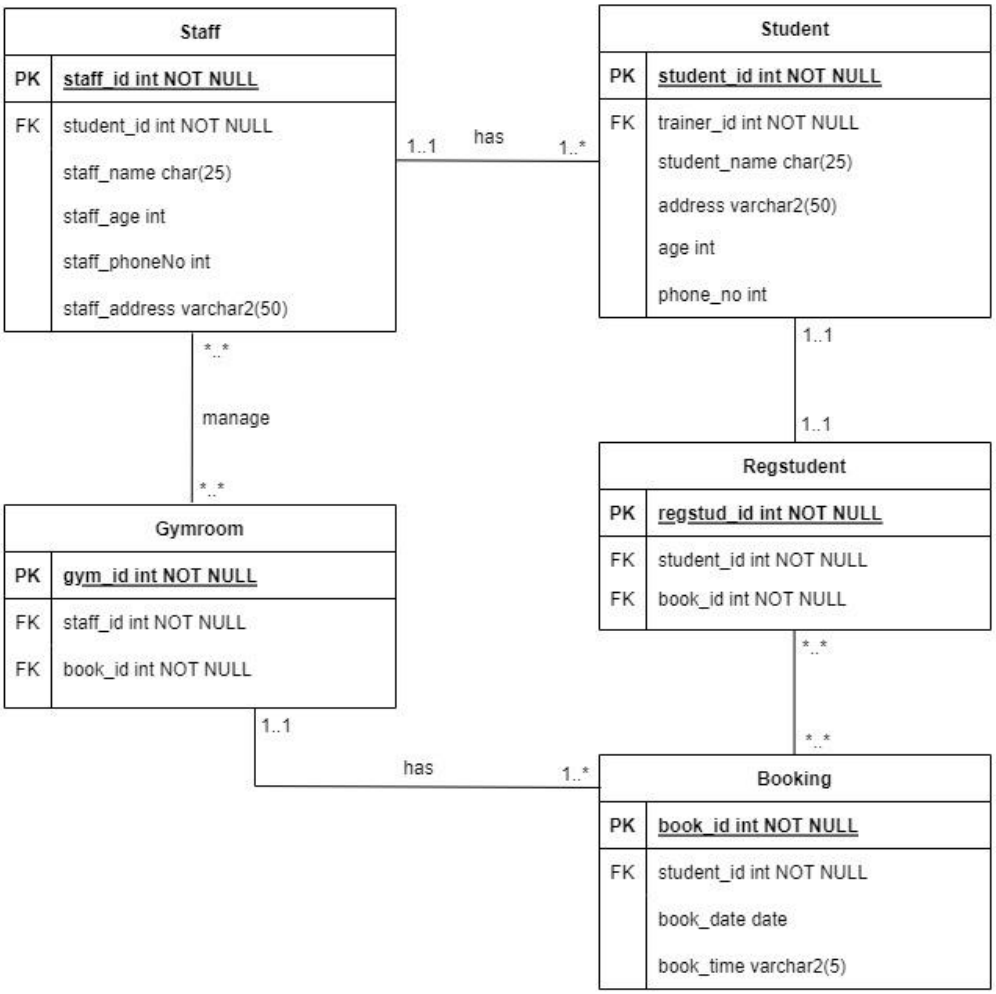
5. **List of Booking**

   This part shows a list of gym rooms that have already been booked. This will allow users to know when they can book their preferred gym room by looking at the time the previous session ends.

6. **Customer Review**

   There will be a list of reviews from students who have visited the gym on this page. It displays what current members think of our gym, including their opinions on the quality of the equipment and their satisfaction with our level of service.

ER DIAGRAM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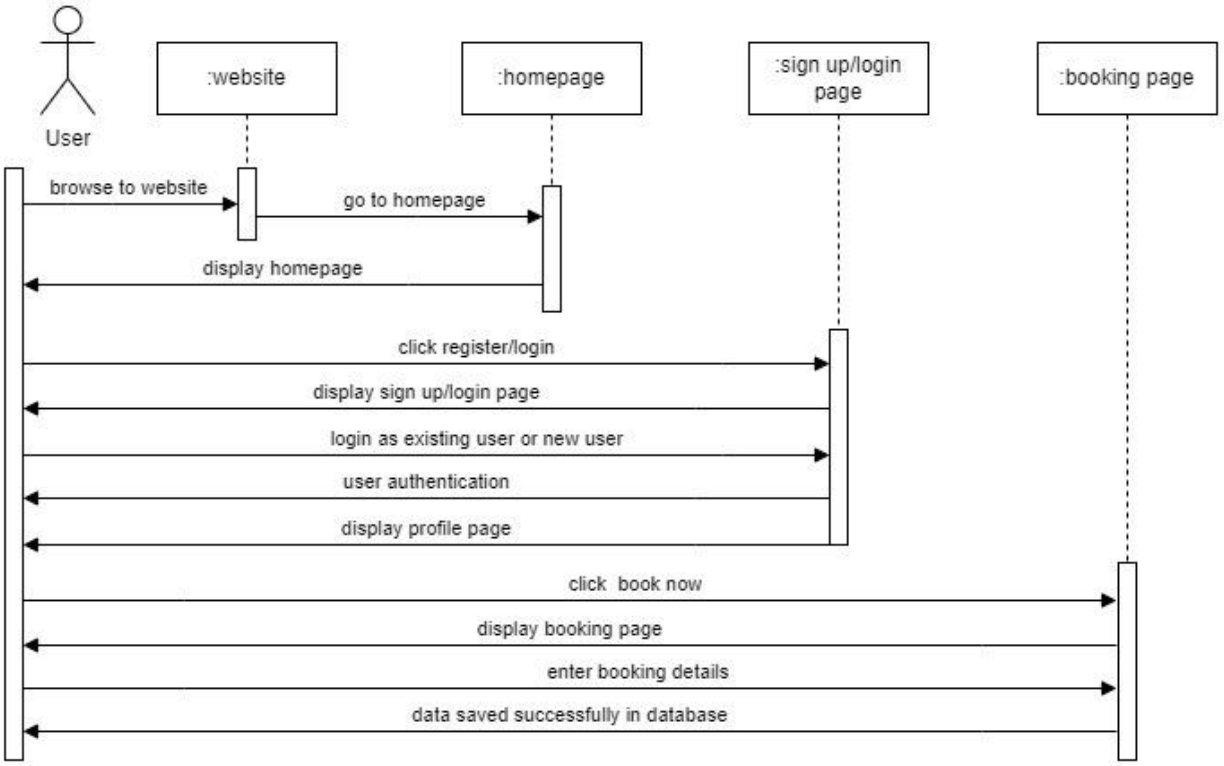
SEQUENCE DIAGRAM