Sri Lanka Institute of Information Technology

Information Technology Project

Year2, Semester 2 - 2022

Project Charter

Title of the Project :	Gym Management System for Mansa Fitness	
Batch :	Weekday – Y2S2-2.2	Group No: WD_B02_ITP_G11
Development Technology :	Node Js, React Js, Express, MongoDB	

Description of the Project:

This project is designed to create an online gym management system for Mansa fitness center gym, fitness studio in Malabe. Mansa is a fully equipped gym with standard facilities and well-trained instructors and personal trainers. They are also offer gym products, Zumba and spin classes. The main tasks that are carried out manually at Mansa are managing members, trainers, payments, client requests and workouts.

This project basically covers the objective of supporting fitness center to manage their customers in an easier and more convenient way. When we were probing into Mansa fitness center, we saw a lot of issues and problems currently existing, and this causes inefficiency in many related sectors in the gym. When we analyzed the company's activities, we discovered some of the major concerns that must be contemplated on are listed as follows:

- There is no proper mechanism to ensure smooth communication between customers and trainers.

- There is difficulty in creating workout schedules and tracking progress of the members while there are also many problems in managing time slots for workout programs.

- Complications and issues aroused when assigning and managing employees' salaries.

- Failure to share issues related to exercises and receive guidance without face-to-face interactions as there is an inability to evaluate trainer performance and progress without a proper feedback system.

- There is no proper mechanism to update the users on the gymnasium's services, special events and holidays. Therefore, there is poor customer acknowledgement.

In order to overcome these issues and problems that arise when handling tasks manually, we have taken the initiative to develop a gym management system. The proposed solution will consist of the following prime functions enclosed within the system.

• Develop a web-based application for the gym
• Implementing a database with separate tables to store relevant information
• Conduct validations to ensure accurate entry of data
• Implement search operations for convenience
• Generate specific reports based on the outcomes

This system can increase the efficiency of the tasks that are conducted in the gym, and we hope that it will provide better services to all the users of the system. Through the above, the necessities of the gym will be fulfilled, and the following benefits can be achieved.

• A web-based application will increase efficiency
• Convenient to use and user-friendly
• Easy access to the system from anywhere at any time
• Easy to manage all users and manipulate system information
• Fast access to information, therefore, reduces time consumption

Details of the Group Members: *(Provide the details of the group leader in the first row)*

	Name with Initials	**Registration Number**	**Contact Phone Number**	**Email**
1.	Silva D.T.T	IT20665234	0714676248	it20665234@my.sliit.lk
2.	Welagedara P.G.R.D.P	IT20655716	0713425833	it20655716@my.sliit.lk
3.	Muhandiram K.M.G.K.W	IT20652050	0752601118	it20652050@my.sliit.lk
4.	Gangoda G.G.W.N	IT20916626	0763646725	it20916626@my.sliit.lk
5.	Ranahansa R.A.K.S	IT20664244	0771357144	it20664244@my.sliit.lk
6.	Perera U.K.T	IT20653040	0705145403	it20653040@my.sliit.lk
7.	Lakshan D.A.T	IT20665470	0719093636	it20665470@my.sliit.lk
8.	De Zoysa R.L	IT20650834	0711230540	it20650834@my.sliit.lk

List of Functions Developed by the Group Members:

	Name with Initials	Brief Description of the Function
1.	Silva D.T.T	Workout Program Management - Workout programs can be created by the System admin. Existing workout programs and current enrollments can be viewed by all members. These workouts can be updated and deleted if needed. **Report: Monthly report on the most popular workout program**
2.	Welagedara P.G.R.D.P	Workout Support Management - The owner and the trainers can create and publish new workouts that can increase member demand. Existing workouts can be viewed and updated as well as selected workouts can be deleted **Report: Monthly report of the most frequently searched/ popular workout and most viewed workouts**
3.	Muhandiram K.M.G.K.W	Feedback and Q&A Management - Members can provide, update and delete feedback and ratings for trainers. All past feedback should also be visible for clients. Members are able to post questions and both members and trainers are eligible to reply to them. The posted feedback can also be updated or deleted. **Report: Weekly report on the unanswered questions to focus attention on them**
4.	Gangoda G.G.W.N	Workout Schedule Management – Members can view predefined workout schedule plans for existing workout schedules. If the member did not achieve his/her requirements he/she can request the customized workout schedule through a form via the system. A trainer can receive all the requests and responds from members. Trainers can also create predefined schedules through the system as well as to display members. **Report: Monthly report for most popular pre-created workout schedule**

5.	Ranahansa R.A.K.S	Employee Management - Employees are initially registered into the system by the system admin. The admin is able to view the current employees working at the gym and if needed, they can be deleted with the owner's permission if they resign or are fired. This involves the task of assigning and updating employee salaries. Requesting and accepting or declining of leaves is maintained. **Report: Monthly report on the distribution of employee's' monthly salary**
6.	Perera U.K.T	Member Management - The receptionist is responsible for creating member profiles. Members can login to view and update their profiles. Receptionists can remove members and view the workout programs a member is currently following and update the next payment dates. **Report: Yearly report on the month with the most member registrations**
7.	Lakshan D.A.T	Trainer Account Management - View and update trainer accounts, including username and password changes. Any special events/promotions can be created, viewed, updated, and deleted by trainers. Accepting or denying requests for personal trainer assistance. **Report: Weekly report on the amount of people who have expressed interest in attending an event**
8.	De Zoysa R.L	Personal Trainer Management - A member can use a form to seek a personal trainer. They have access to personal trainer information as well as any previous requests. If necessary, these details can be seen on a separate page. If the request is no longer required, it can be deleted. Personal trainers will be allowed to build their own blogs, which users interested in getting coached can view to match their needs. These blogs can be updated and deleted as needed. **Report: Monthly report on the most popular trainer package**