



Sri Lanka Institute of Information Technology

Information Technology Project

Year2, Semester 2 - 2023

Project Charter

Title of the Project :	Gym center management system for Mansa gym	
Campus & Batch :	MLB-Weekday -Batch2	Group No: 29
Development Technology :	Mern Stack Technology	

Description of the Project:

"Mansa gym" is a gym located in Malabe with a reputed history of many years in the fitness geek world. With the introduction of the new online Web application for Mansa GYM, members and administrators of the gym will now have access to a variety of convenient and useful features. The new web application is designed to manage and automate gym administrative tasks and provide customers with convenient tools to plan their fitness goals remotely and efficiently. By using the web application, customers will not have to visit the gym to get information, saving them time and effort.

Mansa gym was performing administrative tasks manually, and it was time-consuming, and customers had to always rely on available gym trainers to plan their fitness goals. Therefore, Mansa gym administrators were considering automating admin tasks to save time, and they were considering a web application to improve customer intimacy with the gym. This purposed web application will resolve those issues by automating many admin tasks and by providing customers with automated fitness goal planning tools such as the diet planner tool and progress tracker tool. The web application will also be simple and easy to use, making it convenient for everyone. Customers will be able to easily sign up for membership, view their workout schedule, and communicate with instructors. Instructors will be able to view their schedules, manage class rosters, and communicate with customers. The owner of the gym will be able to manage the website, keep track of membership information, and monitor the progress of their customers and instructors.

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.	Jayasinghe.J.A.P.M	IT21225406	0719986708	it21225406@mysliit.lk
2.	Thalangama.T.P	IT21223594	0723572147	it21223594@mysliit.lk
3.	Sulakkana H.D.S.R	IT21224348	0705032964	it21224348@mysliit.lk
4.	Kannangara S.D.R.Y.L	IT21225710	0771587216	it21225710@my.sliit.lk
5.	Weerage S.W.Y.W	IT21225260	0712993662	it21225260@my.sliit.lk
6.	De Silva S.J.W.	IT21228612	0719516868	it21228612@my.sliit.lk
7.	Fernando N.D.H.	IT21222986	0767670044	it21222986@my.sliit.lk
8.	Karunarthne D.H.	IT21228858	0766041100	it21228858@my.sliit.lk



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List of Functions Developed by the Group Members:

	Name with Initials	Brief Description of the Function
1.	Jayasinghe.J.A.P.M	The workout scheduling function allows users to access and manage their personal exercise schedules. The default schedules are created and assigned according to customer's current details (weight, height, BMI), and customers can view their assigned schedule. Customers also have the option to update their schedules with new exercises with the guidance of gym coaches or delete exercises from their schedules. Gym administrators can also update and delete exercises from a customer's schedule. This feature provides a flexible and personalized workout experience for gym customers with the support of the gym's coaching staff. This function also linked with the members time schedule Members can see how each specific exercise can be executed by using exercise demonstrator function which is available via their schedule.
2.	Thalangama.T.P	The User Management function provides a secure and centralized platform for users to manage their accounts. Both customers and administrators can log in and log out of the system. This function also facilitates interfaces to other functions as well. Customers can sign up for a new account and each user will have a unique profile with their personal details. Users can update or delete their profile, but if a customer chooses to delete their account, all connected information including their workout schedules will be deleted permanently. This feature ensures efficient and controlled access to the gym's online platform for all users. This feature also allows customers to access different types of memberships such as 1-day passes, membership Renewal packages.
3.	Sulakkana H.D.S.R	The progress tracker function is a useful tool for customers to track their progress as they workout. Customers can create a note for each workout session, including details such as weight, fat percentage, and any other relevant information. The progress notes are personal to each customer and can only be deleted or altered by the customer themselves. However, administrators can view the notes without altering them, giving them an overview of customer progress, and helping them to provide more tailored support and advice. This feature enables customers to keep track of their progress and make informed decisions about their workout regimen, while also providing administrators with valuable insights into customer fitness journeys. Members also can add photos and videos for their tracker page.
4.	De Silva S.J.W.	The exercise demonstrator function is a helpful tool for customers to learn how to perform exercises correctly. The exercises are demonstrated through easy-to-understand graphics, making it simple for customers to follow along and learn. Trainers and instructors have the ability to add new exercises to the demonstrator or update existing ones, ensuring that the information displayed is accurate and up to date. They also can delete exercises if they are deemed incorrect. This



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		feature allows customers to access a library of exercises, making it easier for them to learn and implement new routines into their workout regimen. This feature is directly linked with customers workout schedule so they can easily access the demonstrator and find out that exercise should be executed
5.	Fernando N.D.H.	The " Keep Eye on Your Diet " function is a tool to help you track what members eat every day. When a member signs up for the gym, member will get a special diet plan. Members can see what plans that there are on by going to their profile page. On this page, members can keep a food diary and add what they eat each day. The food diary includes a section to add the details of your daily food intake(ex- carbs , calories, protein). This information can help members see how members are doing and if they need to make any changes to their diet. Keeping track of what they eat is helpful in the long run so they can see what foods have helped their progress or which foods have not.
6.	Karunarthne D.H.	The feedback function allows customers to share their thoughts and experiences with the gym and its services. Customers can create feedback and view feedback created by other customers. This feedback can be audio logs, Videos , photos Members can rate each-other feedbacks using a upvote-downvote system. Also, other members and admins can reply to this feedback. Replies for feedback can be nested under each other. Replies can be rated. They as well can also rate and update their own feedback or delete it if necessary. The feedback function serves as a platform for customers to communicate with the gym and provides valuable insights for improvement. Only gym administrators can view all feedback, allowing them to monitor customer satisfaction and address any concerns. This function will also generate a report including top feedbacks and pins them to the top of the feedback list.
7.	Kannangara S.D.R.Y.L	The instructor/trainer/coach management function is a feature that enables administrators to effectively manage the instructors working at the gym. The function allows administrators to add new instructors, delete existing ones, and update their details. This information is then accessible to customers, allowing them to view the available instructors The feature provides a central platform for managing instructors, making it easier for administrators to keep track of their details and maintain the accuracy of information. Also coaches profile included their social media as well so the members can visit them.
8.	Weerage S.W.Y.W	The Frequently asked questions function is a helpful place to find answers to common questions. The section has pictures, videos, and sound recordings to help explain the answers.. There's also a chatbot that can help answer more specific questions. With the combination of all these things, the FAQ section on the gym website is a one-stop place to get all the information you need about the gym and its services. Through feedback function, members can directly access the FAQ section. So, the customers can view if their problem already has an answer before adding a feedback Admins can delete or edit the FAQ questions if the question is based on a frequently asked differently or not has been frequently asked at all. When members have been asking a new question more frequently, admins can add that question to the FAQ as a new question that has been answered