



# Sri Lanka Institute of Information Technology

## Information Technology Project

Year2, Semester 2 - 2023

### Project Charter

<b>Title of the Project :</b>	Personal Health Care Management System	
<b>Campus &amp; Batch :</b>	Malabe – Weekday – Batch 7.1	Group No: T96
<b>Development Technology :</b>	MERN Stack – Mongo DB   Express Js   React Js   Node Js	

#### **Description of the Project:**

The Personal Health Care Management System is an online approach designed to help to recover from personal health issues such as substance abuse, obesity, and stress. The motivation is to support them in recovering from their conditions with the help of engaging in consultations and motivating them to follow personalized schedules. This system is a similar approach to e-channeling but with additional functionalities, and it will be a good solution for treating patients with personal health issues.

The system will have all the basic functionalities, such as signup, login, and profile creation. The treatment mode will differ depending on the patient's condition. The system will provide quizzes verified by consultants of categories including substance abuse, obesity, and stress. By participating in a related questionnaire, users can identify their risk level. Patients with low risk will ask to follow a schedule generated by relevant consultants, and those with high risk will ask to make an appointment with a consultant. Additionally, the system will facilitate users to upload an image of a medical report and get reviewed by a specialist. Then the specialists could generate prescriptions, and the users will facilitate to get delivered those medicines.

As the system is an online approach to helping patients, there will be advantages, including managing patients without considering the location and time-related boundaries, treating patients in a personalized way, and also ensuring the secrecy of the patients.

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

	<b>Name with Initials</b>	<b>Registration Number</b>	<b>Contact Phone Number</b>	<b>Email</b>
1.	Silva T.U.D	IT21318320	076 900 5515	it21318320@my.sliit.lk
2.	Fernando W.Y.M	IT21276996	077 277 0897	it21276996@my.sliit.lk
3.	Siribaddana K.	IT21347962	076 739 0862	it21347962@my.sliit.lk
4.	Gunawardana N.B.C.A.W	IT21321504	077 157 3790	it21321504@my.sliit.lk
5.	Karunaratne D.T.S	IT21313684	071 161 1308	it21313684@my.sliit.lk
6.	Dissanayake M.G.T.W	IT21319174	071 062 5397	it21319174@my.sliit.lk
7.	Bandara G.N	IT21200724	071 506 2202	it21200724@my.sliit.lk
8.	Ilangarathne R.A.C.W	IT21319242	071 543 1391	it21319242@my.sliit.lk



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### List of Functions Developed by the Group Members:

	Name with Initials	Brief Description of the Function
1.	Silva T.U.D	<b>Portfolio Management and Report Analysis</b> Portfolio Management is the process of manipulating the details of the specialists. The administrator would have access to perform all the CRUD operations on portfolios. And these portfolios will use by the appointment handling to facilitate users to provide sufficient details about the specialists available for consultations.  In the report analysis, patients are facilitated by enabling the option to upload an image of a medical report to be reviewed by the doctor. In advance, the uploaded image will analyze, and if there is a high risk, the system will notify the patient. The specialist can further analyze the report and can generate prescriptions accordingly.
2.	Fernando W.Y.M	<b>Pharmaceutical Management</b> After entering the essential data to log in, the pharmacist reviews the orders that are available. A pharmacist checks to see if a specific medication is readily available. The user and supplier are informed by the pharmacist if the medication is not available. If the medicine is available, the pharmacist will create a report including the name of the medication, how much the patient must take it, how much it costs, and identify the location and found out where it should be delivered.
3.	Siribaddana K.	<b>Quiz Management</b> Quiz Management will manage questionnaires of categories including substance abuse, stress, and obesity by taking questions from a quiz bank. The system will evaluate quizzes performed by users and categorize them into different risk levels according to their marks. Users with high risk will ask to make an appointment with a health specialist, and users with low risk will get a personalized schedule to follow. This system will offer all the tools necessary to carry out CRUD operations associated with managing quizzes. After the process, the system will produce reports detailing the performance of each quiz question and the total number of users that took the quiz.
4.	Gunawardana N.B.C.A.W	<b>Schedule Management and Feedback Management</b> In the beginning, schedules are created based on the selected category of health issue and the quiz marks using an automated system. The users can view their plans by signing up with the system. The specialists could upload the verified health plans and perform all the CRUD operations.  The system will collect feedback from the users through an automated system and would be stored and reviewed to improve the efficiency and customer satisfaction of the system. And



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		additionally, the system would create percentage charts using user reviews and generate reports accordingly.
5.	Karunaratne D.T.S	<b>Progress Management</b> Progress Management will help users to track their progression of completing their schedules. In the beginning, the patient can select the number of days per week and a time to set a goal to complete the provided plan. Patients can track their progress towards their goals by viewing a progress bar and a completion percentage. If the patient wants to set reminders, it will facilitate by the system. Patients can update the goal by changing the selected number of days. And delete the created goal list if they need to delete it. The same system would create goal completion rates and percentage charts using the data and generate reports accordingly.
6.	Dissanayake M.G.T.W	<b>Appointment Management</b> Appointment Management is handling user appointments. The system will provide a list of specialists' details. The users can search for their desired specialist and make an appointment. All the CRUD operations related to user appointments will handle by the system. The user will receive an appointment confirmation document with a unique id, and the user can track and update appointment details by using the id. Additionally, the system will generate reports regarding all the appointments.
7.	Bandara G.N	<b>Payment Management</b> Payment Management will perform all the CRUD operations related to payments. Patients can use the payment portal to make their payments in advance to confirm their appointments. After every successful payment, users will receive a payment confirmation document. And also, users can request a refund for the cancellation of their consultation appointment. Additionally, the administrator can view and generate reports on total payments.
8.	Ilangerathne R.A.C.W	<b>Communication Management</b> Communication Management will handle and solve user inquiries. Users can navigate the support page and raise questions by filling out the form. The users will receive an id for their queries, and they can track the progress of resolving their issues using the id. All the CRUD operations related to user problems will handle by the system. And the administrator will get access to view and generate reports regarding statistics of solved problems.