



# Sri Lanka Institute of Information Technology

## Information Technology Project

Year2, Semester 2 - 2022

### Project Charter

<b>Title of the Project :</b>	Institute Management System for Laboratory Palawatta	
<b>Batch :</b>	Weekday Batch :Y2.S2.WD.IT.01.01	Group No: WD_B01_ITP_G05
<b>Development Technology :</b>	MERN Stack	

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

This is an institute management system designed to the client “Laboratory Palawatta” which is located at Pitigala, Pahala hewassa road, Palawatta.

This system is designed to fit any education institute implementing classes for school children. The system is specially designed to keep a track on the students, academic and non-academic staff and also regarding the payments of the students, salary payments, feedback, time table management, subject, and exam management under one centralized system which is much more efficient than what is done manually.

This system will reduce the manual work of an institute and will allow to systematically organizing all aspects of the institute which can be accessed and retrieved anytime.

So, the overall system provides solutions for any data user of the institute, thus making the business process of the institute much more efficient.

#### **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.	Ariyasena P.P.S.	IT20636524	0769879911	it20636524@my.sliit.lk
2.	Ariyaratnna B.M.N.D.S.	IT20643836	0772138929	it20643836@my.sliit.lk
3.	Perera L.A.M.D.	IT20636692	0714325887	it20636692@my.sliit.lk
4.	Dasanayake K.D.H.S.	IT20654030	0769723987	it20654030@my.sliit.lk
5.	Weerapperuma D.I.	IT20658472	0705843283	it20658472@my.sliit.lk
6.	Ahmed M.N.T.	IT20648190	0770771410	it20648190@my.sliit.lk
7.	Aathif M.A.M.	IT20644680	0774738774	it20644680@my.sliit.lk
8.	Wishvajith Y.W.S.H.	IT20653118	0776329601	it20653118@my.sliit.lk



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

	Name with Initials	Brief Description of the Function
1.	Ariyasena P.P.S.	<p>Student Management -</p> <p>Manage all students who attend to the classes in this institute. When a student attends to classes first time should be registered by entering name, age, exam years, school, email address, address and phone number. And afterwards when the student attends for classes, attendance should be marked. Update student details when needed and all updated information can be viewed in a Student Profile page when needed. This system should also allow searching the total attendance and details of each student. Students should be logging to the system using the given username and password. Further, when a student is leaving the institute, student profile should be deleted. Generate report of the monthly attendance of students of each class by entering the teacher's id and class id at the end of the month.</p>
2.	Ariyaratnna B.M.N.D.S.	<p>Fees Management -</p> <p>This manages all payments done by students in enrollment. The payments are captured on the system based on the Student ID, Subject, Month and Amount. Multiple payments made to multiple subjects/classes with the same student ID can be synced here. Payment analysis can be generated from this and the admin will have access to edit or delete any entries. If receptionist enters an invalid payment amount as the Student Fee, the system will pop up an error message. Also the system will allow access to search previous payments made when searched using the student ID. At The end of the month system will analyse the payments and generate the summary of payments.</p>
3.	Perera L.A.M.D.	<p>Staff Management -</p> <p>Manage all academic and non-academic staff in this institute. When a new staff member join the institute, they should register by entering name ,age ,NIC ,academic/ non-academic category, email address, address, phone number and the subject (if an academic staff).Staff members can enter to this application using username and passwords. Staff should be able to update or delete information entered and any information can be retrieved when searched using the ID number. Admin can generate report about existing academic and non-academic staff members.</p>
4.	Dasanayake K.D.H.S.	<p>Feedback Management-</p> <p>Manages student feedbacks and students' ideas about teachers and the classes which conduct in this institute. When a student enters and searches the teacher's name in the search bar and then all the children's feedbacks and suggestions about the teacher can be found here. When a student enters an invalid name it displays an error message. After a student enters his / her name and ID, he / she can give a feedback to the teacher of his / her choice and also can update or delete it whenever needed. Admin can generate report monthly for the students' satisfaction about each class.</p>



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5.	Weerapperuma D.I.	<p>Subject Management -</p> <p>Manage the subjects which teach in this institute. When a new teacher comes for a new subject it can add to the system. And also whenever needed Can update the subject details and teachers assigned to that. And if teachers not available for a subject it can be deleted. A subject must contain subject ID, subject name and teachers assigned to that subject. When enter a subject id can search for available teachers for that subject if enter an invalid id it displays an error msg. The system provides a report summarizing the subjects and the relevant teachers for each subject.</p>
6.	Ahmed M.N.T.	<p>Exam Management -</p> <p>Scheduling of exams is mainly done in exam management. The schedule consists of the time, date, subject, student batch number and the exam hall number. The changes in the schedule will be updated in real-time. Being able to schedule exams in separate times preventing from being overlapped, which makes it efficient. Scheduling the exam, updating any changes in the schedule or cancelling an exam schedule can be done with the help of this system. The system also provides the convenience for the user to search the required exam schedule. The validation can be done by checking whether two or more exams are held at the same time in a particular class. At the end of each month or year, a report summarizing the subjects and the relevant teachers for each subject is generated</p>
7.	Aathif M.A.M.	<p>Salary Payment Management -</p> <p>Manage all salary payments of both academic and non-academic staff. The admin can update the payments (salaries) of the staff members when it increases or decreases. And also the payments (salaries) can be deleted by the admin when a staff member leaves the institute. Payments are also created when a staff member or staff members join to this institute. While paying salaries, if a salary is already paid the system will display a warning. Each and every staff member can view their payment details up to date, and also staff members are provided with a special facility which helps them to search their payments history. At the end of the month system will generate the summary of the salary payment details.</p>
8.	Wishvajith Y.W.S.H.	<p>Timetable management</p> <p>Manages the timetables for all classes. The timetables are created based on details such as date, time, hall name, subject, relevant teacher's name and student batch. User can see the updated timetables. Shows if there is a change in the timetables. The system can be deployed to schedule a new class, verify the scheduled class to prevent the time management issues, cancel an existing class, making other changes to the timetable and search for scheduled class. Generate report about summary of the classes held during the month.</p>