Sri Lanka Institute of Information Technology
Information Technology Project
Year2, Semester 2 - 2021

Project Charter

Title of the Project:	Institute Management System for "The Global Institution"
Batch:	Y2S2WD.IT.08
Development Technologies:	Frontend = React.js Backend = Node.js/Express.js Database = MongoDB

Description of the Project:

> "The Global Institution" is an educational institution that conducts tuition classes for students from grade 6 and upwards. Mr. Thilak Jayaweera is the owner of this institution which is located in Kurunegala and approximately about 3000 students and 20 teachers are to be managed. As the institution is going to conduct online classes for the betterment of students and due to the rapid growth of students, we are planning to develop a web application to overcome communication and management difficulties. There are several reasons why this web application has to be developed. Students get the opportunity to pay for the classes via online methods. They can access the web application anytime anywhere using provided credentials. Students can check exam results through the student portal. The major advantage is that the management functions are automated, so that they can store students' and teachers' details in a cloud platform.

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.	Maduwantha K.A.I	IT20069186	0769007598	it20069186@my.sliit.lk
2.	H.A. Hasith Deminda	IT20238612	0717073719	it20238612@my.sliit.lk
3.	Ahamed M.M.Z.	IT20081416	0765265512	it20081416@my.sliit.lk
4.	Wijewardena O.K.	IT20070458	0715405589	it20070458@my.sliit.lk
5.	Saparamadu M.D.T.	IT20022488	0718720021	it20022488@my.sliit.lk
6.	Saparamadu M.D.Y.A.	IT20030230	0778851788	it20030230@my.sliit.lk
7.	Poornima M.G.N.D.	IT20071202	073200885	it20071202@my.sliit.lk
8.	Malshika M.D.J.	IT20002824	0762640746	it20002824@my.sliit.lk

List of Functions Developed by the Group Members:

	Name with Initials	Brief Description of the Function
1.	Maduwantha K.A.I.	**Exam Management** All exam information is posted on the Student Dashboard. The students can find the exam details and their results after the exam is completed. Only teachers can add exam information including the exam paper from their respective dashboards. Namely, exam name, class name, exam date, and duration. After adding an exam, the teacher can edit or delete the exams. After the given time for the examination, student must upload their paper to the relevant link. The teacher can publish the results for the respective class after checking students' papers. Then, students can see their results on the dashboard. The teacher can get a report of results by giving the class id on a given mark range.
2.	H.A. Hasith Deminda	**Student Management** Admin registers students into the system and then, he/she must assign the students into the correct classes. In addition to that, student details can be edited or removed from the system by the Admin. Admin can search for any student to find details using the student ID. Admin should be able to generate monthly reports for newly registered and existing students. A student must log in to the system using provided credentials. Also, students can edit their profile details if needed.
3.	Ahamed M.M.Z.	**Teacher Management** Admin registers teachers into the system manually. When the admin registers a new teacher, system generates a personal profile with all relevant details of that teacher. Admin can search for teachers' details using search function. Admin has the permission to edit the details of teachers, update details and remove a teacher from the system. And teachers also can update their personal details in teachers' profile. Admin can generate reports monthly for newly registered and existing teachers.
4.	Wijewardena O.K.	**Class Management** The teacher has the access to enter the class details on the "add class" page. The teacher enters relevant details and lecture content. Admin has the authority to check class details and confirm the class. Then the class will be uploaded to the student profile and sent through an email. Admin has the authority to reject the class for uploading incorrect class details. The teacher has the ability to edit or delete the class.

5.	Saparamadu M.D.T.	**Request and Rating Handling** Request Handling system is used to solve teachers and student problems. If some teacher or student has some problem, they can reach the admin using the "Support page". After entering the questions, admin view their problems and give solutions separately. When admin give a solution, it will be recorded in the system. After student or teacher submit a question, he/she can edit their question within 20 minutes. There is another option called rating. End of every month, students can give feedbacks to their teachers. After giving ratings and feedbacks to teachers, admin can view each teachers' performances as a summary.
6.	Saparamadu M.D.Y.A.	**Staff Salary and Teacher Payment Management** Admin can enter staff information to the system. In addition to that, admin can update/delete each employees' details. After the staff is registered, admin can pay the staff monthly. Also, the admin can update or delete the payment details in the system. Considering staff as Permanent and Teachers as non-Permanent employees, Admin inputs staff salaries and teachers' payments into database. At the end of the month, system will generate a summary of expenses.
7.	Poornima M.G.N.D.	**Student Payment Management** To attend sessions, students must pay for the relevant classes. If they are unable to pay the relevant fee on or before the given date, they will not be able to gain the access to the classes. Students must enter relevant details with the payment slip on the payment page. Admin can view the payment details and consequently approve or reject the payments. If admin approves it, students will receive an email of confirmation. when the admin rejects the student payment, students can become aware of it and then, details can be edited to proceed.
8.	Malshika M.D.J.	**Attendance Management** This function manages the attendance of all the students who are registered to the system. A teacher has the full authority to manage the attendance. A teacher can enter new attendance to the system. If a class is held online, the teacher should send the google form link which students should fill during the online session, Alternatively, if the classes are held as physical classes, attendance will be collected when students enter the room. The teacher can update the attendance and delete the attendance as required. Finally, the teacher can search for any attendance by giving the class ID. Also, admin has the permission to view the attendance of students to respective classes and generate monthly attendance of students as a report.