

**Information Technology Project**  
**Year2, Semester 2 - 2023**

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**Project Charter**

<b>Title of the Project:</b>	Online Educational Institute Management System	
<b>Campus &amp; Batch:</b>	2022 Feb Group-Weekday	Group No: T60
<b>Development Technology:</b>	MERN – Mongo DB   Express JS   React JS   Node JS	
<b>Client</b>	Nawamaga Educational Institute (No 15 Wedikumbura Rd, Monaragala)	

**Description of the Project:**

This project is based on Educational Institute called Nawamaga. It is a web-based software application that handles all aspects of a learning process, including the administration, documentation, tracking, reporting, and delivery of support educational services. By gathering all the details of users, this system can provide Well-structured distribution of educational services and ease the administration and enhance user security. This learning process is based on a hybrid learning system which got both online learning and physical learning.

Types of users and the limitation of access is the key feature of this system. Registered, Unregistered students and staff members (Teachers, admin) are the three distinct types of users, who all have differing levels of access to content and perform CRUD operations on the web application. Students can access classes Answer Questionnaires and make payments, watch recordings, and have their progress tracked by staff members. Staff members(teachers) can arrange classes and questionnaires, check the answers, and make reports. Unregistered students can view the content on the web and make some inquiries. The admin has complete access to everything on the site. To cover all these user scenarios, there are eight functionalities in this web app and all these functionalities got unique tasks. Those functionalities are Student Management, Staff Management, Class fee Management, Support Services, Module Management, Timetable and notice Management, Quiz Management, and Assignment Management which have one or more crud operations in each, search bars, and generating reports facility to fulfill the tasks.

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Details of the Group Members:

	Name with Initials	Registration Number	Contact Phone Number	Email
1.	Baddewithana P	IT21247804	0706370573	It21247804@my.sliit.lk
2.	Ilesingha I.T.S.	IT21206078	0702234039	it21206078@my.sliit.lk
3.	Rajawasan W.H.H.S.	IT21315664	0769649542	it21315664@my.sliit.lk
4.	Hansani K.J.M.	IT21222672	0762582467	it21222672@my.sliit.lk
5.	De Silva K.T.S.	IT21328916	0772021034	it21328916@my.sliit.lk
6.	Liyanage L.D.P.D.	IT21327780	0717656875	it21327780@my.sliit.lk
7.	Jayasooriya J.M.D.T.	IT21326868	0704642020	it21326868@my.sliit.lk
8.	De Zoysa A.P.S.	IT21219634	0719954022	it21219634@my.sliit.lk

**List of Functions Developed by the Group Members**

	Name with Initials	Brief Description of the Function
1.	Baddewithana P	<p><b>Student Management</b></p> <p>Student management has four tasks. Login and Registration, Managing Student Profiles, Taking Feedback from the Students, and Handling Parental Appointments. In login and registration, students fill in the necessary details of the application form, such as name, age, gender, mode, classes, and password. After that, the student can log on to the profile. In managing student profiles, profiles contain basic student details and feedback from teachers. When handling parental appointments, parents can view the student's profile and set an appointment. To archive these tasks, methods like crud operations, report generation, and search boxes are used.</p>
2.	Ilesingha I.T.S.	<p><b>Support Services Management</b></p> <p>This service has 2 tasks raising tickets and managing general Q&amp;A. students, visitors can raise a ticket via the provided form and can read, update, and delete the respective ticket. Staff responsible for providing answers to questions. Managing general Q&amp;A done by staff via articles using simple CRUD operations. To do these tasks message, Student ID, and the class name is needed.</p>

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3.	Rajawasan W.H.H.S.	<p><b>Timetable and Notice Management</b></p> <p>When a staff member/admin wants to change the time of classes without any issues, it can be done via a form, and read, update, and delete operations can be done by providing details. If there is a change in the schedule, the students will be informed about the change in the schedule through announcements/notifications other than that, any other general notices can be put on the home page, and read, update, and delete operations can perform on that respective notice.</p>
4.	Hansani K.J.M.	<p><b>Class Fee Management</b></p> <p>Financial management has one task: collecting the class fee. All the institute's financial operations are done through the financial section, which includes creating new records, updating existing records, and deleting records if necessary. Finally, the financial section is also responsible for presenting a payment summary to the institution owner as a report. To do these tasks, Student ID, payment method, and class name are needed for paying class fees.</p>
5.	De Silva K.T.S.	<p><b>Quiz Management</b></p> <p>Teachers can post Online exams (Questionnaires) on the module page. Students can answer that questionnaire. Marks will allocate in real-time. After the exam ends Teachers can Delete it. If the teacher wants to do changes to existing questions Teacher can Update them. As Features, the teacher can enable backward navigation, Put a Time Limit.</p>
6.	Liyanage L.D.P.D.	<p><b>Module Management</b></p> <p>Staff(teachers) can manage their class content. They can upload lecture recording videos, and lesson slide documents and perform create, read, update, and delete the content. Only the registered students can watch the recorded lessons, and they can download documents.</p>

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7.	Jayasooriya J.M.D.T.	<b>Assignment Management</b> Assignments are given for respective modules. Only the teacher can add assignments and teachers also can delete or edit assignments. Students must submit assignments to the given link at the given time. They can edit or delete submissions. Teachers can add marks to the assignments, and they must generate mark sheets. To achieve these tasks Information like Assignment name, Module, time, and Instructions are needed.
8.	De Zoysa A.P.S.	<b>Staff Management</b> Admin registers academic and non-academic staff into the system manually. When the admin registers a new staff member system generates a personal profile with their information. The admin can manage staff members, staff verification, create staff profiles, search staff members, and generate reports. All the Teachers' and Staff Members' salary details are managed here. The Salary Payment is only reachable to the administrator and the Administrator will be able to search salary history, Calculate, add, and remove salaries from the staff members and teachers. At the end of every month, the Administrator can generate a report of services done by all the Teachers and Staff Members under their ID and, can generate a monthly report which is containing the new employees who registered to the system each month.