



Sri Lanka Institute of Information Technology

Information Technology Project

Year2, Semester 2 - 2023

Project Charter

Title of the Project :	Tuition Management System	
Campus & Batch :	Malabe_IT_Weekday	Group No: T83
Development Technology :	Mern Stack Technology	

Description of the Project:

The Tuition Management System is a highly sophisticated and user-friendly web-based application designed to streamline and automate the processes involved in managing a tuition center. The system offers separate, tailored dashboards for each of the major stakeholders involved in the center, including the administrator, teacher, student and parent as well as separate portals for managing attendance, exams and expenses.

The Admin Dashboard provides the administrator with complete control over the management of the tuition center, enabling them to manage and access information about students, teachers, parents, subjects, classes, exams, schedules, attendance and financial aspects (fees and expenses). In addition, administrators can also generate and view reports in real-time, and make changes to the system as required.

The Teacher Dashboard provides a comprehensive view of the teacher's students and classes, including exam results statistics and student progress over time. Teachers can view the number of students and classes assigned to them, and important demographics such as attendance, gender and grade distribution of their students. They can also view their class schedules.

The Student Dashboard offers students an overview of their progress, and the classes they are assigned to together with their timetables, providing them with a clear understanding of their academic journey. The Parent Dashboard gives parents an insight into their child's performance data, allowing them to track their progress.

The Attendance Portal allows the tuition center to collect and manage attendance data of students in real-time. The Exam Management Portal provides teachers an all-in-one platform to manage exams related to their assigned classes and release the unofficial student grades to be approved and released as official marks by the admin. The Expense Management Portal allows administrators to monitor all the expenses related to utilities, salaries, and other operational costs.

The Tuition Management System is designed to enhance the overall efficiency and security of the center's operations while reducing manual effort and increasing accuracy and reliability of information. The system is a centralized solution that will save time, increase transparency, and improve the overall management of the tuition center.



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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.	Thilakasiri P. K. V. C.	IT21244698	0712906815	it21244698@my.sliit.lk
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3.	W. M. Y. Soysa	IT21238512	0703968965	it21238512@my.sliit.lk
4.	G. S. Hasanka	IT21233876	0714370503	it21233876@my.sliit.lk
5.	Jasingha S. D.	IT21327476	0702210258	it21327476@my.sliit.lk
6.	Silva R. L. G.	IT21232954	0765672300	it21232954@my.sliit.lk
7.	Gamlath W. A. V. K.	IT21211928	0705930139	it21211928@my.sliit.lk
8.	A. M. B. S. Bandara	IT21229398	0701117153	it21229398@my.sliit.lk



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List of Functions Developed by the Group Members:

	Name with Initials	Brief Description of the Function
1.	Thilakasiri P. K. V. C.	<p>Admin Dashboard – Statistical Data Representation</p> <p>The Admin Dashboard includes a detailed graphical representation of various statistical data, including gender distribution, grade distribution, and exam results statistics of all students in the tuition center. This feature is a critical component of the overall system as it provides administrators with a quick and easy way to understand and analyze a wide range of important data and statistics.</p> <p>Class Management</p> <p>The Class Management Function in the Admin Dashboard enables administrators to effectively organize and manage classes within the tuition center. This function provides administrators with the ability to create new classes, view, search, edit, and delete existing classes, giving them complete control over the classes offered and allowing them to make necessary updates as required.</p> <p>In addition, the Class Management Function allows administrators to enroll and unenroll students from a particular class as necessary, and search for students who are enrolled in a specific class. The function also provides administrators with the ability to generate reports based on the data.</p> <p>Moreover, when a teacher is assigned to a class by the administrator, they will be notified via email. Similarly, when a student is enrolled or unenrolled from a class, both the student and their parent will receive notification via email. If there are changes made to the information about a class, such as the class teacher, date, time, or venue, the teacher and all enrolled students will also be notified via email. This ensures that all relevant parties are kept informed and up-to-date on the latest class information.</p> <p>Schedule Management</p> <p>The Schedule Management Function in the Admin Dashboard provides administrators with the ability to view class schedules for all existing classes in the tuition center. This function presents class schedules in a user-friendly calendar format, making it easy to view and understand the class schedule at a glance. The calendar view displays class dates, times, and venues, providing administrators with a comprehensive overview of the center's class schedules.</p> <p>In addition, administrators have the option to download the class schedules in PDF format, allowing them to easily share or print the schedules as needed.</p>



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2.	K. P. V. Pathirana	<p>Parent Management</p> <p>The Parent Management function in the admin dashboard provides administrators with the tools to efficiently manage parent accounts. Administrators can create new parent accounts, view, search, edit, and delete existing parent accounts as needed. This ensures that parent information is up-to-date and accurate.</p> <p>In addition, the Parent Management function provides administrators with the ability to generate reports based on the data.</p> <p>Parent Dashboard</p> <p>The Parent Dashboard is designed to give parents a comprehensive view of their child's performance data within the tuition center. This dashboard provides parents with the ability to track their child's progress, allowing them to stay informed about their child's academic performance. Parents can view this information in real-time, ensuring that they are always up-to-date on their child's progress.</p> <p>One of the key features of the Parent Dashboard is the ability to view student attendance. Parents can easily access information on their child's attendance record, including the number of classes attended, missed, and the overall attendance percentage.</p> <p>Overall, the Parent Dashboard is an essential tool for parents to stay informed about their child's education and to monitor their child's progress within the tuition center.</p>
3.	W. M. Y. Soysa	<p>Exam Management Portal</p> <p>The Exam Management Portal is designed to give teachers the tools they need to effectively manage exams for the tuition center. Teachers have the ability to create new exams, view, search, edit, and delete existing exams related to classes they are assigned to, as needed.</p> <p>The teacher can also mark attendance for students who sat for the exam and add marks for each student. They can edit these marks if necessary, and release the unofficial student grades for approval by the admin. When the unofficial marks are released, the students will be notified via email.</p> <p>Moreover, teachers can also view statistics about exams, such as attendance and grade distribution, and generate reports based on the data.</p> <p>In addition, students are able to log into the Exam Management Portal to view their marks.</p> <p>By providing teachers with the tools they need to manage exams effectively and efficiently, the Exam Management Portal streamlines the exam process and improves the overall performance of the tuition center.</p>



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		<p>Exam Management in the Admin Dashboard</p> <p>The Exam Management function in the Admin Dashboard gives administrators control over the management of exams at the tuition center. Administrators have the ability to approve and release the official grades to the students. When the official grades are released, the teacher, the student, and their parents will be notified via email.</p> <p>In addition, administrators can generate reports based on the data. This helps administrators to gain valuable insights into the performance of the tuition center and make data-driven decisions to improve the overall quality of education offered.</p>
4.	G. S. Hasanka	<p>Teacher Management</p> <p>The Teacher Management function in the admin dashboard allows for efficient and effective administration of teacher accounts. Administrators have the ability to create new teacher accounts, view, search, edit, and delete existing accounts as needed. This provides the flexibility to manage the teacher database in real-time, ensuring that it stays up-to-date and accurate.</p> <p>In addition, the system provides the capability for teachers to generate reports based on the teacher data.</p> <p>Teacher Dashboard</p> <p>The Teacher Dashboard provides teachers with a comprehensive view of their students and their classes. Teachers have the ability to view the number of students and the number of classes assigned to them, as well as other important statistics such as gender distribution and grade distribution of their students.</p> <p>One of the key features of the Teacher Dashboard is the ability to view exam results statistics. This allows teachers to quickly and easily monitor the performance of their students. Teachers can also view the attendance of their class's students to ensure that students are regularly attending their classes.</p> <p>In addition to monitoring their students' performance, the dashboard also includes a feature to provide teachers with a comprehensive view of their students' progress over time.</p> <p>Overall, the Teacher Dashboard provides teachers with a user-friendly interface that allows them to manage their classes, monitor their students' performance, and keep track of their students' progress in real-time.</p>
5.	Jasingha S. D.	<p>Subject Management</p> <p>The subject management function in the admin dashboard provides administrators with a centralized platform for managing the subjects offered by the tuition center. The function enables</p>



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		<p>the admin to create new subjects, view, search, edit, and delete existing subjects as necessary, making it easy to keep the subject offerings up-to-date and relevant.</p> <p>Additionally, the subject management function includes the ability to generate reports that include subject details, allowing administrators to easily track the subjects offered and their related information.</p> <p>Fee Management</p> <p>The fee management module in the tuition management system provides a centralized approach to fee collection and tracking. The administrator has complete visibility into the payment status of each student and can easily see which students have paid and which students are yet to pay. They can add, edit or delete payment records. The module is designed to simplify the fee collection process, reducing the workload on the administrator and improving the accuracy of the payment records. Additionally, the system provides detailed reports on fees collected, enabling the administrator to make informed decisions about the financial health of the tuition center.</p>
6.	Silva R. L. G.	<p>Admin Management</p> <p>The Admin Management function in the admin dashboard allows the administrator to create new admin accounts, view, search, edit, and delete existing accounts as needed, ensuring that only authorized individuals have access to the information contained within the admin dashboard.</p> <p>In addition, the system provides the capability for admins to generate reports based on the admin data.</p> <p>Attendance Management</p> <p>The Attendance Management Portal allows to easily mark attendance of students. When a particular class is selected, the student attendance can be marked accordingly.</p> <p>The teachers can also edit the attendance for any particular student if needed.</p> <p>The marked attendance is then stored in the system and can be easily retrieved for future reference.</p>
7.	Gamlath W. A. V. K.	<p>Expense Management Portal</p> <p>The Expense Management Portal provides administrators with a comprehensive view of all expenses related to the tuition center. Administrators have the ability to view, add, edit, and delete expenses related to the center.</p> <p>This includes expenses such as rent, utilities, staff salaries, and</p>



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		<p>supplies, among others.</p> <p>With the ability to categorize expenses into different categories, administrators can easily keep track of their expenses and ensure that they are staying within budget.</p> <p>In addition, administrators can also view expense reports, which provide them with valuable insights into the center's financial status and spending patterns.</p> <p>The Expense Management Portal helps administrators to manage their financials effectively and efficiently, ensuring that the center remains financially stable.</p>
8.	A. M. B. S. Bandara	<p>Student Management</p> <p>The student management function in the admin dashboard is designed to provide the administrator with a comprehensive solution for managing student accounts. The admin has the ability to create new student accounts, view, search, edit, and delete existing accounts as needed.</p> <p>The system provides the admin the ability to monitor student performance by analyzing a line chart showing the marks obtained in the last 6 exams they sat for.</p> <p>Additionally, the admin has the capability to generate reports based on the student data.</p> <p>Student Dashboard</p> <p>The Student Dashboard provides students with a centralized platform to view their academic journey. They can easily view their class schedules, helping them stay on top of their daily activities and keep track of their classes.</p> <p>Additionally, the dashboard allows students to view their marks and exam results, keeping them up to date on their progress and performance. This enables them to identify areas where they need to improve and work on their weaknesses.</p> <p>Overall, the Student Dashboard provides students with a comprehensive overview of their academic journey, empowering them to take charge of their education and strive for success.</p>