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| **Students Details** |  | nibm LOGO |
| **Module Name:** | Statistics for Computing |
| **Module Lecturer/ Course Coordinator:** | Mr. Ishara Dissanayake |
| **Department:** | School of Computing |
| **Submission Due on:** | 7/13/2025 | |
| **Type of Coursework:** | Group | |
| **Title of the Coursework:** | Tuition Management Information Android Application | |

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| ***Students Details:*** | | |
|  | **Student No.** | **Student Name** |
| 01 | COHNDSE242F-005 | M.K.D. Gangadara |
| 02 | COHNDSE242F-008 | A.H.V.M. Jayaratne |
| 03 | COHNDSE242F-019 | D.S. Jayasinghe |
| 04 | COHNDSE242F-040 | W.A.U.S. Weerasooriya |

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| **Office use only:** |
| ***Date Stamp Required of the Department*** |

# Introduction

**Science More** is a reputed tuition institute that provides knowledge for students who are in grade 6 through 11. This institute operates through two branches located in Mallawagedara and Godigamuwa, offering a wide array of subjects including Science, Mathes, Sinhala, English, History, ICT, Tamil and Commerce for all 6 grade levels, conducted by 10 to 15 Teachers.

Each class there are roughly 100 to 150 students. Approximately there are 4,500 students learning from Science More institute, demonstrating its significant impact and outreach within the educational landscape.

# Problem definition

The operational management of *Science More* tuition institute is currently handled by a limited number of staff through entirely manual processes.

This approach encountered significant challenges with a student count of approximately 4,500 individuals across two branches resulting the manual system struggles to accommodate the administrative demands associated with high student volume, especially in areas such as:

* Maintaining accurate student and teacher records
* Distributing and monitoring subject materials
* Tracking assignment submissions and grading student performance individually
* Mark student attendance

Hence, the current system is inefficient and not scalable, which frequently causes delays, irregularities, and an increase in the workload of administrative staff. A simplified, technologically advanced solution is required for improved operational and educational goals.

# Project Objectives

The primary objective is to improve the efficiency and effectiveness of the Science More Education Institute while enhancing customer experience and workers’ wellbeing.

Optimizing administrative processes, improving the quality-of-service delivery, and providing seamless academic support across all branches can be identified as some of major goals withing this project.

The proposed improvements seek to elevate the overall learner experience by ensuring timely access to educational resources, transparent evaluation mechanisms, and structured communication.

# Proposed solution

Designing and developing a Tuition Management Information Android Application for Science More Education Institute. This app will help tuition centers manage students and teachers, track attendance using QR codes, and provide learning materials. The application will support three types of users: Admin, Teachers, and Students.

# Core functionalities

Admin

* Register students
* Update students’ details
* Delete students
* Assign students to teachers
* Assign students to courses
* View reports (attendance, results)

Teacher

* Take student attendance via QR code
* Upload assignments
* Release results
* Upload course materials
* Delete course materials

Student

* View attendance
* View assignments
* View results
* View course materials
* Submit assignments
* Receive notifications from teachers/admin.

# Implementation

The proposed Tuition Management Information System was developed as two distinct Android applications to facilitate role-specific functionalities and streamline access control. This architectural decision was made to enhance system scalability, security, and usability for different user groups.

* **Admin Application**: This application is for administrative purposes such as managing user accounts, monitor attendance records.
* **Student and Teacher Application**: Designed to support both educators and learners, this application enables students to access educational content, submit assignments, and view results, while teachers can manage attendance, share subject materials, and evaluate submissions.

The modular implementation ensures that each user group interacts with an optimized interface and feature set aligned with their responsibilities, contributing to improved operational efficiency and user satisfaction across the institute.

# Roles and contributions of each member

# References

# Appendices