

School of Computing and Mathematics

PRCO303

Final Stage Computing Project

BSc (Hons) Software Engineering

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Smart LMS Mobile App for School Students

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# Introduction

## About Us

Logo, company name

Description automatically generatedThe smart mobile app is called e-Edu and its clients are school students and teachers. The aim is to ensure the safety of students during the covid outbreak period as well as in the post-covid outbreak period that the entire world is facing these days and to enable them to continue their education through modern technology without any hindrance.

## Introduction

I plan to implement a Learning Management System (LMS) to solve certain current issues. Students, Teachers, will be the primary components of this learning management system. These are the most challenging managerial tasks. Which they must do manually at the beginning, mid, and end of each school year.

At the end of each three-month period, management must compute student attendance, test scores, and other data, while teachers must calculate leave and compensation details for each month and year. Inventory information is also crucial; they need to know how many seats and tables are in each classroom, among other things. My system will handle library administration, such as book information and lenders' details, as well as returning and paying for late book submissions.

This school management system is intended to aid in the administration of the school.

# Business Case

## Business Need

The government of Sri Lanka has used a variety of control techniques to manage the current coronavirus outbreak in the country, including social distance, quarantine, lockdowns, travel restrictions, and rural isolation. The goal of this study is to use the Internet and modern technologies to effectively address these present issues and develop viable answers. LMS can be take distance education as a solution.

![Graphical user interface

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEBLAEsAAD/4T8wRXhpZgAATU0AKgAAAAgACgALAAIAAAAmAAAIkgESAAMAAAABAAEAAAEaAAUAAAABAAAIuAEbAAUAAAABAAAIwAEoAAMAAAABAAIAAAExAAIAAAAmAAAIyAEyAAIAAAAUAAAI7gITAAMAAAABAAEAAIdpAAQAAAABAAAJAuocAAcAAAgMAAAAhgAAEYYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAAAABLAAAAAEAAAEsAAAAAVdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAMjAyMToxMToxMSAwMDozOTozMQAABpADAAIAAAAUAAARXJAEAAIAAAAUAAARcJKRAAIAAAADMTIAAJKSAAIAAAADMTIAAKABAAMAAAABAAEAAOocAAcAAAgMAAAJUAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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it is an overhead in the offline system to store teachers, students, parents, and other school staff records on paper. Everything relating to their progress in the system is carefully marked. If I use an online platform for school education, it will be easy for both teachers and students to continue their studies.

This system facilitates the successful completion of education not only during the covid outbreak period but also during the post covid outbreak period.

### Underlaying Problem

In the Current Situation, students can do their educations and teachers can’t teach their students physically. And students as well as teachers face many difficulties in performing co-curricular activities in the classroom while maintaining social distance. Also, for more than a year, students have not been able to face the exams held at each school term to test their education and their level of knowledge. They lost their lovely school life. Therefore, this smart web version mobile app can be mentioned as a guide for their educational activities.

This system facilitates the successful completion of education not only during the covid outbreak period but also during the post covid outbreak period.

## Business Objectives

Users of the LMS will use the functional LMS requirements, which are the real functionality of the LMS.

* Courses and user management.
* Exam management.
* Library access.
* Announcements & notices.
* e-Learning models.
* Graphical user interface, website

  Description automatically generatedCreation of learning content and support.
* Report and analytics.

# Project Objectives

1. To give access to resources.
2. To make learning effective.
3. To considerably save time, money and energy.
4. To customize the learning sessions as per the requirements.

# Chapter 4: Initial Scope

**Scope (01): - Login**

According to the user type provide a login module with a different privileges and functionalities. provide login into the system securely by validating username and password. Also, user can be log out from the system.

**Scope (02): - Registration**

When joining the system, get details from the online register form and the system will record user details as necessary.

**Scope (03): - Dashboard**

Dashboard is the main thing for user. Username will display on top of the page. There are two themes used for the dashboard for students and teachers. The dashboard interface includes many features such as My subjects, My timetable, Announcement, Exams & Results and Library.

**Scope (04): - Announcements & Notice**

This section allows teachers for give some important messages to students or their parents.

**Scope (05): - Exams & Results**

Exams & results section only for teacher for conduct term test via online. After give marks and student can get their marks.

**Scope (06): - Library**

This sectionforboth of students and teachers. They can refer e-books for improve their knowledge.

# Method of Approach

This LMS will make an incremental approach. This approach will target and focus on,

**I. E-Learning**

Students and teachers can learn and teach through mobile Application.

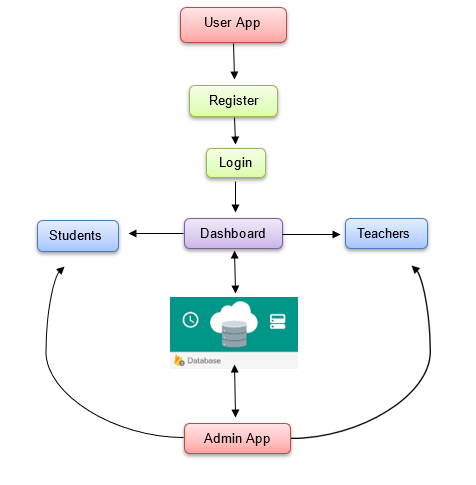
**II. Internal Communications**

Between admin, students, and teachers – through Mobile Application.

**III. Interoperability with students’ and teachers’ applications**

Between admin, Staff member and teachers – through Mobile Applications.

My development approach of this project will be undergoing with Prototype Methodology. This management method will help me to finish project within deadlines, respectively. Technologies that I plan to use are WordPress, Java and Xml. Visual studio Code, Sketchware are used as IDEs for development. This project will contain different types of apps for different types of tasks for users, such as admin and Users (students & teachers).



# Project Plan

## Control Plan

I’ll be using Protype Methodology as a project planning technique.

* Reports highlighting weakly at the end of stages.
* Review meetings with supervisor until the end of project.
* Risk Management
* Communication Plan
* Quality Plan
* Exception Reports

## Communication plan

Meeting sessions will be held by supervisor per necessity of students. The aim of these meetings would be to discuss the next stage strategy, the end-stage update, and to review the technological deliverables generated at that stage.

Table

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# Initial Risk List

Table

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# Initial Quality Plan

Table

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