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Module Code: PUSL2021	Module Name: Computing Group Project				
Coursework Title: Tuition Class Management System					
Deadline Date:25/10/2023	Member of staff responsible for coursework: Mr. Pramudhya Thilakarathne				
Programme: Computing Group Project					
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# **Tuition Class Management System**

### **Computing Group Project**

**PUSL 2021** 

Plymouth Badge 11

(Group 82)

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#### Overview / Introduction

#### **Tuition Class Management System**

We present to you a project proposal aimed at ushering in a new era of tuition management where education in Sri Lanka embraces modern technology and innovation. Our team introduces a software that will redefine the field of assisted education.

Our team's primary objective is to add new technology to traditional tuition institutions. We expect this project to empower tuition institutions in Sri Lanka to operate with high accuracy, unmatched efficiency and remarkable speed. The project will simplify administrative processes for teachers and institutions while ensuring a seamless process for every student.

The origins of this project lie in our experiences as former tuition students. Let's understand things like waiting in long queues for manual attendance marking, tuition fee errors and sudden class cancellations. These experiences have motivated us to make a difference in students and institutions.

The first step in our team's project is to mark attendance. This happens automatically. We use a smart card for this. This system allows for quick and accurate marking of student attendance, replacing the manual processes of marking class cards and ensuring that students are no longer burdened in long queues.

Here we create a profile related to the student in the software. All the student's details and parents' details are included in that profile.

It is related to the student's smart card. When the card is scanned, the administrator will be able to know all the details of the student.

This software introduces a comprehensive tuition fee management system. This software allows you to accept payments and track payment history. Administrators will no longer have to rely on paper records, streamlining payments across the entire financial side of tuition management.

Apart from this, parents can know about their child's arrival, departure and class fee payment from home without visiting the institute.

### **Objectives**

This project aims to achieve the following objectives:

#### **Students**

• To develop a mobile application for the students to mark their attendance and departure.

#### <u>Parents</u>

 Develop this application to send a message to the parent after the monthly payment furthermore a message was also sent to a parent if the payment was not paid at end of the month.

#### Institute admin

- With this application, when the card is punched, the admin can get all the details of the students.
- Also, Admin can calculate the total attendance of the students at the end of the class.
- Admins can calculate their profit at the end of the month.

## **Target Users**

- Students
- teachers
- Parents
- Institute admin

## Application Features and Description

### Smart card

Features	Description		
To mark attendance	Students should punch the card when entering to the class.		
	When student punched the card, automatic massage sent to their parents with class fees details, time of arrival and departure of the class and special information about the class		

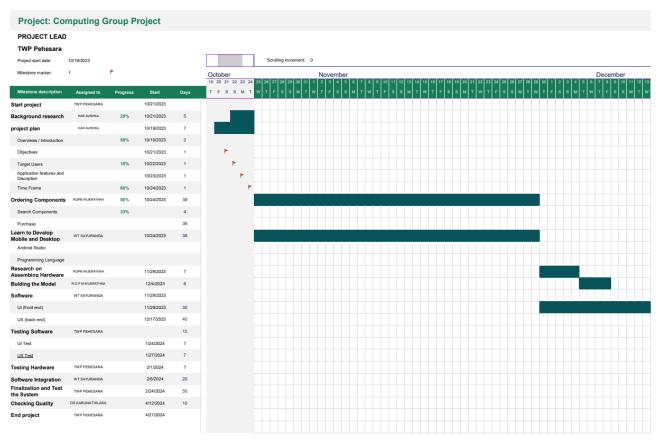
### Mobile and Desktop Application

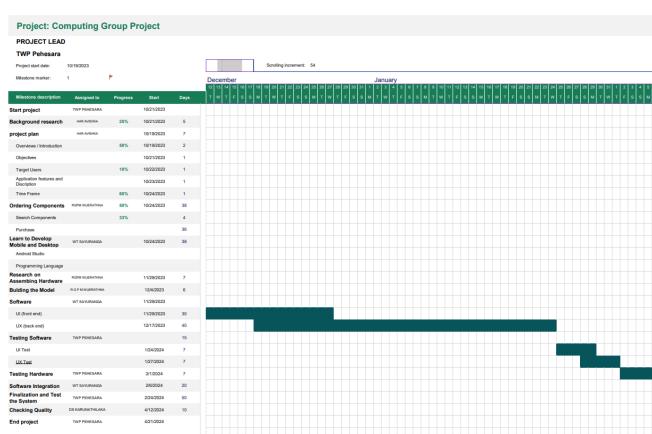
Features	Description
Student profile	Student details Students' parent's details What Classes he/she joined.
Teacher profile	Teachers' details
Payment gateway	Profit report for the admin panel. Students can pay via the application. Students and parents can see payment details.
Attendance report	Admin panel can see student attendance sheets to make decisions.
Timetable	Teachers and students can see the times for their classes. Admin panel can arrange their class via seen this timetable. Parents also can their students class time. If there are no class all the users can see it.
Alerts and Notifications	If there is a special alert, all the users can reach easily.

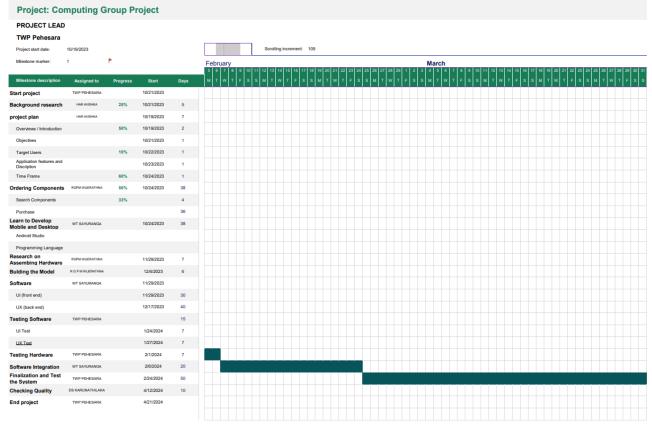
## **Cost Estimation**

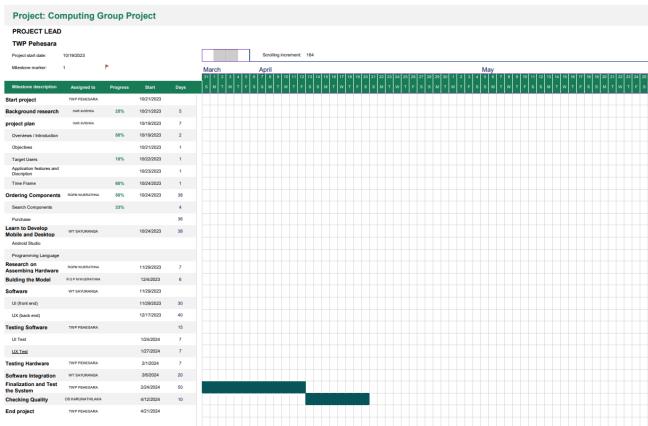
	Estimated Cost (LKR)		
Smart card	Rs 300.00*10 = Rs 3,000.00		
NFC reader	Rs 15,000.00		
Bar code reader	Rs 10,000.00		
Server	Rs 10,000.00		
<u>Total</u>	Rs 38,000.00		

### Time Frame (Gantt Chart)









## Contribution

NSBM	PLYMOUTH ID	NSBM Name	PLYMOUTH Name	Leaders	Contribution
<b>ID</b> 25427	10898586	TWP	Thuduwe Pehesara	Project	Gantt Chart
		Pehesara		Leader Testing and Maintenance	<ul> <li>Application         Features         and         Description</li> <li>Contribution</li> </ul>
05554	10000110			Leader	
25551	10898418	HAR Avishka	Hetti Avishka	Planning Leader	Gantt Chart
25922	10898708	GPM Wijerathna	Ramboda Wijerathna	Technical Leader	Cost     Estimation
25535	10899688	WT Sayuranga	Wickramaarachchige SSayuranga	Programming Leader	Introduction
27227	10899581	DS Karunathilaka	Dushan Karunathilaka	Quality Leader	Objectives     Target     Users