BICOL UNIVERSITY POLANGUI CAMPUS

Computer Studies Department

Polangui, Albay

Student Information &

Payment Recording System

A Mini Project to the Bachelor of Science in Computer Science (BSCS)

Computer Science Department

In Partial Fulfillment of

The Requirements for the First Semester- Midterm

In Software Engineering 1

By:

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Title of the project : Student Information & Payment Recording System

Term : First Semester – Midterm

School Year : 2022 – 2023

Subject : Software Engineering 1

Course/Block : Bachelor of Science in Computer Science 3A

I. INTRODUCTION

This software project covered the development of a student information system for students in the primary grades. The suggested system contains student records that are organized in a database approach which contains their personal information and their payment records. This proposed system will eliminate the loss of records, especially records that are important such as payment records. Student information and payment information are essential records that should be kept in a secure system; hence, the proposed system will employ a password-protected login system for its users. Users of the proposed system are teachers and the ICT Coordinator is the administrator. Teachers or ICT Coordinators as administrators will need to input the student's information to be recorded into the system. The teachers will need to input the payment records of each student into the system. The payments include homeroom projects, miscellaneous fees, PTA Projects, and other fees. These records are essential records that should be stored in a system. The paper explains the high-level implementation details of the proposed system. Such application is very useful in schools to improve their record-keeping capabilities.

STATEMENT OF THE PROBLEM

The manual process of keeping records and the problem of losing papers, especially receipts as proof of payments is always a problem in schools, especially in public schools that do not store records in a computer system. At present only those who are in private schools keep records especially payment records in a system to track payments and student data. This proposed system will be installed in any of the teacher's personal computers with access to

the internet for them to input student personal information and payment information. Additionally, this system records which students have pending, paid and unpaid bills, to eliminate problems in miscommunication between teachers and students regarding their payment status. The project aims to eliminate the loss of records by providing a user-friendly, secure, and more –efficient way of keeping records.

OBJECTIVES OF THE PROJECT

A. MAIN OBJECTIVES

The objective of this project (Student Information & Payment Recording System) is to give a solution to the problem in the existing system and to create a system that will help the students, teachers, and the school to make the record-keeping more secure and accessible. This study is generally to monitor the student's personal information and payment information. A report of the student's personal information and their payment information is generated in a table format for easier projection. The main objective of this system is to embed computer capabilities in maintaining and storing relevant information of the students, replacing the traditional way, using paper.

B. SPECIFIC OBJECTIVES

For the realization of the project, these are the specific objectives:

- Create the school's student information & payment record system
- To include the student record for easier access to student's personal information
- Provide user-friendly, cost-effective, and easier access to data.
- To include the payment record for easy tracking of fulfilled and pending payments
- To include good security for the system
- To provide a sufficient number of accounts for teachers and admins

SCOPE AND LIMITATIONS

The scope of our study is the students and teachers of Kindergarten under Marayag Elementary School academic year 2022-2023. Moreover, the developer will choose 100% of the total population of the said grade level who will represent as sampling. The project is solely for educational institutions to implement a computer-based recording system of student information and payment information. In addition, this project will not cover the other grade level which does not fall as part of the abovementioned scope. The researchers would provide a questionnaire to the teachers and students as a survey and reference in making the system besides following the Republic Act No. 10173, otherwise known as the Data Privacy Act. Students' information is used for specified and explicit purposes only**.**

SIGNIFICANCE OF THE PROJECT

This project will be considered useful material for the following:

- Primary students – This will help the students with their personal information and payment records
- Teachers – This will serve as an alternative to the traditional way of maintaining records.
- Developers – This study will further expand their capacity in developing systems.

REFERENCES

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Ralph, Paul (2012). "The Illusion of Requirements in Software Development".

Somerville, I. Software Engineering, 7th ed. Harlow, UK: Addison Wesley, 2006.

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http://www.scribd.com/doc/48111565/Software Requirements-Specification-for-online-student management-system, accessed on 22th October, 2014.

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Student Information System

Gantt Chart Template © 2006-2018 by Vertex42.com

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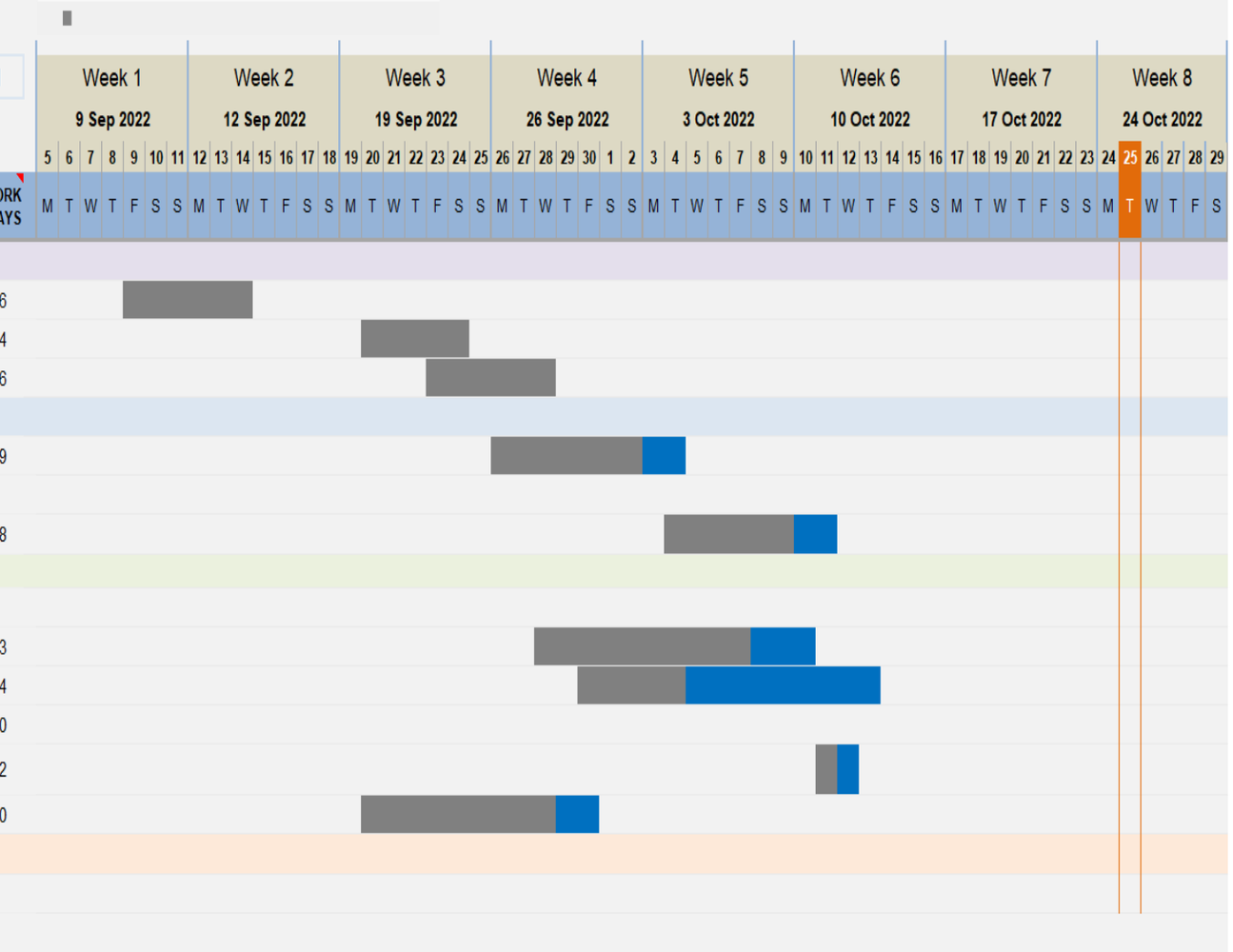
Codem

Project Start Date: 9/9/2022 (Friday)

Display Week: 1

Project Lead:

WBS	TASK	LEAD	START	END	PROGRESS	WORK DAYS
1	**Planning Stage**					
1.1	Title Proposal		Fri 9/09/22	Wed 9/14/22	100%	6
1.2	Search for Target School		Tue 9/20/22	Sat 9/24/22	100%	4
1.3	Proposal Paper		Fri 9/23/22	Wed 9/28/22	100%	6
2	**Analysis Stage**					
2.1	Letter Request for Interview		Mon 9/26/22	Tue 10/04/22	85%	9
2.2	**Data Gathering**					
2.3	Survey		Tue 10/04/22	Tue 10/11/22	75%	8
3	**System Implementation**					
3.1	**Development Phase**					
3.2	Flow		Wed 9/28/22	Mon 10/10/22	83%	13
3.3	Programming		Fri 9/30/22	Thu 10/13/22	40%	14
3.4	**Design Phase**					0
3.5	UML Diagram (Use Case)		Tue 10/11/22	Wed 10/12/22	95%	2
3.6	User Interface Design		Tue 9/20/22	Fri 9/30/22	85%	10
4	**Phase 4 Title**					
4.1	**Task 1**					



BICOL UNIVERSITY POLANGUI CAMPUS
Computer Studies Department
Polangui, Albay

Letter Request for Interview

Date: October 22, 2022
Subject: Seeking Permission to Interview and Conduct Survey

Dear Ma'am/Sir,

Cordial greetings!

We, the Bachelor of Science in Computer Science students of Bicol University Polangui Campus, is currently conducting a Software Project entitled "Student Information & Payment Recording System " as a partial requirement for Software Engineering 1 course.

With this, we would like to request consent to allow us to conduct a structured interview and survey on students and teacher of Marayag Elementary School. In particular, the interview will focus on the teacher's and Kindergarten students' personal information. Equally, we also request that you allow us to conduct a photo or video shoot for project documentation.

Furthermore, participation in our interview and photo or video shoot is entirely voluntary and does not pose any known or anticipated risk or issue. All information gathered will be dealt with with utmost integrity and confidentiality.

Your approval of this request will be highly appreciated. Should you have further concerns or clarifications, please let us know.

Thank you very much.

Respectfully,

Allen Ace Alos
Cristian Espedido
Ma. Patricia Lim
Caren Kate Monasterial
Alexis Montales
Nichole Andrei Murillo

Noted by:

Prof. JOSHUA L. CARIÑAN
Software Engineering 1

Approved:

ARNOLD PLATON
Chairperson, CSD

QUESTIONNAIRES

1. Since Elementary Schools use LIS, do they also use LIS?
2. What are the records that are not included in the LIS?
3. How are they maintaining the record?
4. How often do they use LIS?
5. For what purposes do they use LIS?
6. How are the records helping them decide better as a teacher?

    a. how does it help the school admin/management?

    b. What are the challenges faced in gathering the details?
7. What are the challenges in maintaining the records?

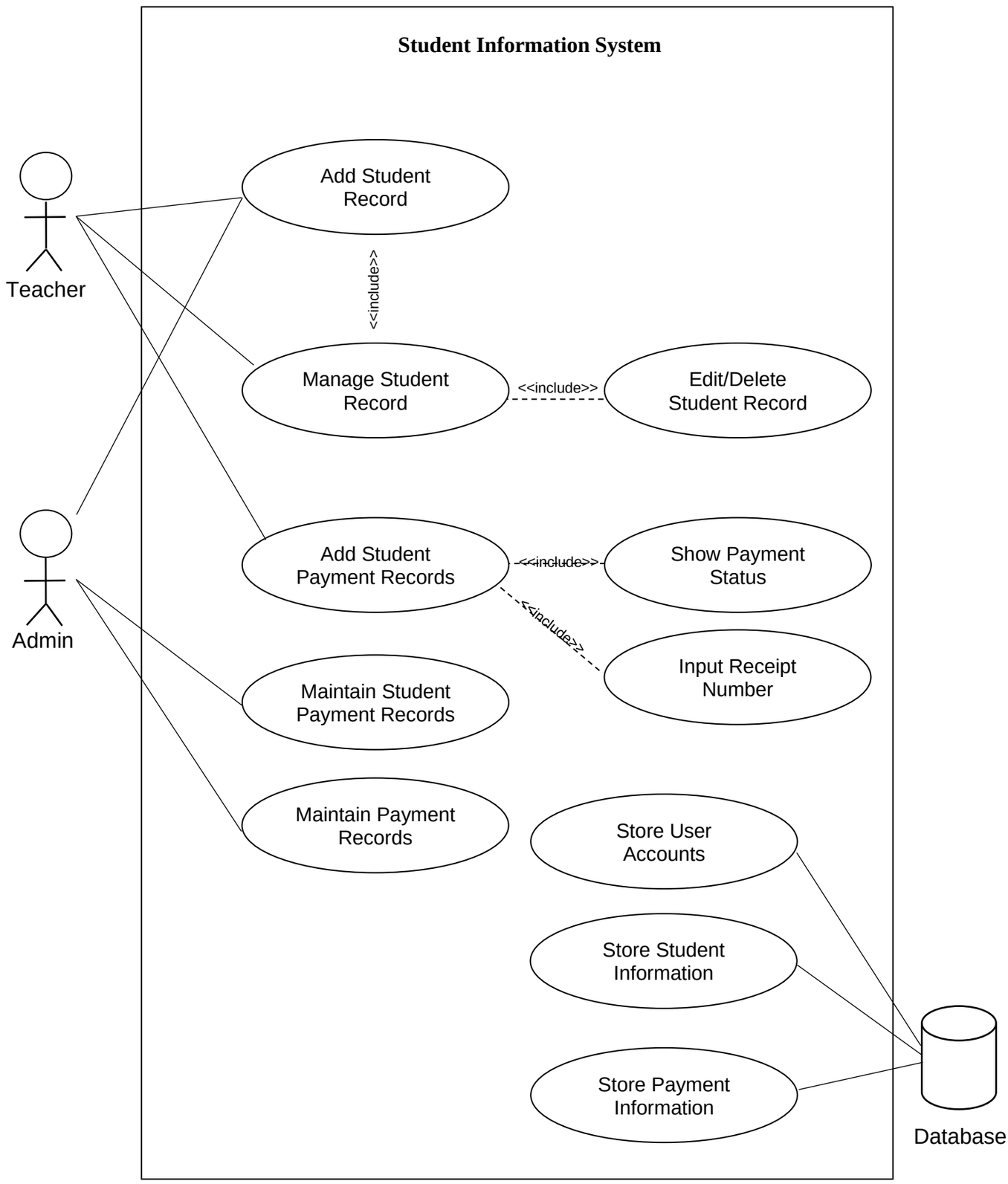
DOCUMENTATION

PROJECT PLANNING

PAPER WORKS

DATA GATHERING

I. UML DIAGRAM (USE CASE)



I. SOFTWARE AND HARDWARE REQUIREMENTS

NO.	SOFTWARE	DESCRIPTION
1	Microsoft Office 2022 • Word • Excel	Tools for editing documents and Gantt chart.
2	Browser • Chrome • Google Scholar	Used for gathering related information and related projects.
3	Windows OS • Windows 10 • Windows 11	Tool for programming by the use of IDE.
4	Design • MS Word • Canva • Excel • Draw.io	Creating diagrams such as ER-Diagram and Gant chart.
5	IDE • Netbeans	IDE to program in Java Language.
6	Programming Language • Java • SQL	Programming language for system development.
7	Database • MySQL • Free Sql Database	Database management tools

NO.	HARDWARE	DESCRIPTION
1	Laptop	OS: Windows 11 CPU (Minimun): Intel Core i5 RAM: 8GB+ Function: System Development
2	Printer	Used to print payment status reports

NOTES: