LA GRANDEE INTERNATIONAL COLLEGE

Simalchaur, Pokhara-8, Nepal

A Project Proposal

On

"Mero School"

Submitted to:

Bachelor of Computer Application (BCA) Program

In partial fulfilment of the requirements for the degree of BCA under

Pokhara University

Submitted by:

Name	Course	Semester	PU Registration Number
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Date: April 30, 2023

Declaration for

"Mero School"

Student's Declaration

We hereby declare that we are the only authors of this work and that no sources other than the listed here have been used in this work.

_____

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Date: __/__/2023

Supervisor's Declaration

We hereby recommend that this project entitled "Mero School" is done under my supervision by **Sajit Gurung**, **Kshitij Gurung**, **Nischal Pokhrel**, and **Kiran Sunar** during their 6th Semester in partial fulfilment of the requirements for the degree of **BCA** under **Pokhara University** is completed to my satisfaction and be processed for final evaluation.

_____

Name of the Supervisor

Date: __/__/2023

Letter of Approval

We certify that we have examined this report entitled “Mero School” and are satisfied with the project defense. In our opinion it is satisfactory in the scope and qualify as project in partial fulfilment of the requirements for the degree of **BCA** under **Pokhara University.**

_____ **Supervisor** Sunil Pandey	_____ **Examiner** Date:____ / ____ / _____

ABSTRACT

This project, titled "Mero School", aims to automate school management processes by developing a School Management System. The front-end is developed using HTML, CSS, and JavaScript, while the back-end is designed with PHP and MySQL database. The system consists of various modules, including Data Entry and Data Records, which are further divided into sub-modules, such as adding, updating, and deleting student records in the Student Setup module. By effectively managing these modules, this system helps to efficiently manage human resources within the organization, saving valuable time.

The proposed solution includes features like student enrollment, which will be achieved through user-centered design principles, waterfall development methodologies, and continuous testing and iteration. These efforts aim to provide a simple, user-friendly solution for schools to manage their administrative tasks, making both users and administration feel comfortable while working with it.

Table of Contents

Table of Figures

1. INTRODUCTION

The project titled "Mero School" aims to handle all the activities of the school by providing modern facilities required for computerizing day-to-day operations. Its main purpose is to provide features such as student enrollment, record keeping, and solving administrative problems by creating a complete dynamic website. This includes providing a secure system, managing student data efficiently, and making user tasks easier and faster. One of the main objectives is to reduce paper work and manage the entire school. However, the project has some limitations such as the absence of online fee payment, attendance tracking, and search module.

"Mero School" serves different functions such as bringing efficiency, guiding students in the right direction, and promoting coordination between students, teachers, and parents. It provides well-defined policies and programs, creates a favorable teaching and learning environment, promotes growth and development of human qualities, and utilizes appropriate materials for effective execution of programs and activities. Additionally, the project adds flexibility and automation to the process of managing the school.

2. PROBLEM STATEMENT

One issue that some standard schools face is the lack of a systematic data management system for student records. When administrators need to record student data, they must use a manual system that involves using a lot of paper. This can lead to data loss when problems occur. Additionally, many school websites are not dynamic. For example, if an administrator wants to change a picture in the gallery, they must hire a developer who will need to make changes through the backend code. In contrast, a dynamic site allows changes to be made easily through a dashboard without coding. Our project, "Mero School," is a dynamic site that includes categories such as file management, administration, sliders, "Why Choose Us," "About Us," gallery, awards, site configuration, and contact us. Many school websites also lack an online enrollment system, which means that students and parents must complete paperwork and be physically present at the school to submit admission forms. This is time-consuming and inconvenient. To solve this problem, "Mero School" offers an online enrollment system.

3. OBJECTIVES

a) To fully implement a dynamic system.

b) To offer an online student enrollment system.

c) To provide the system with a security mechanism.

d) To efficiently and effectively manage student data.

e) To simplify and speed up user tasks within the system.

4. LITERATURE REVIEW

School management systems have the potential to greatly benefit schools in Nepal. Nepal is a developing country that has been making significant strides in the education sector, and implementing an effective and efficient school management system can help schools manage administrative tasks, track student progress, and improve communication between stakeholders. This literature review provides a critical overview of the existing literature on school management systems in the context of Nepal, focusing on their benefits, challenges, and key features. Several studies have highlighted the benefits of school management systems in Nepal. For instance, Bhandari et al. (2021) found that school management systems can help schools manage administrative tasks such as attendance tracking, fee collection, and exam management more efficiently, reducing the workload of teachers and staff members. Additionally, school management systems can improve communication between teachers, parents, and students, and provide real-time access to student progress, academic records, and other relevant school information. Furthermore, school management systems can help schools monitor and evaluate their performance and identify areas for improvement.

Despite the benefits of school management systems, several challenges have been identified in the context of Nepal. According to Dhakal and Bhattarai (2020), the main challenges include lack of technical skills among teachers and staff members, limited financial resources, and inadequate support from school management. Additionally, some schools in rural areas have limited access to electricity and internet connectivity, which can make it challenging to implement and maintain school management systems. Furthermore, ensuring data privacy and security remains a significant challenge for schools implementing school management systems. The literature has identified several key features that effective school management systems in Nepal should possess. Additionally, data analytics and reporting tools can help schools to monitor student progress and identify areas for improvement. The system should also be accessible, user-friendly, and customizable to meet the needs of schools in different regions.

The literature review has highlighted the benefits, challenges, and key features of school management systems in the context of Nepal. While challenges exist, proper planning, training, and support can help schools overcome these challenges. An effective and efficient school management system can greatly benefit schools in Nepal, improving communication, increasing productivity, and enhancing academic outcomes for students. Therefore, it is recommended that a school management system be developed with the necessary features, user-friendly interface and should be customized to meet the specific needs of Nepali schools.

5. REQUIREMENT ANALYSIS

The objective of this project is to develop a simple school management system that can automate the administrative tasks of a school. The system will be a web-based application that can be accessed from any device with an internet connection. It will be user-friendly and easy to navigate, with features such as student record management, attendance tracking, and grade management. The system will also provide reporting and analysis tools to help school administrators make data-driven decisions. The project timeline will be two months. Potential risks for the project include delays in development, unforeseen technical issues, and lack of user adoption. The stakeholders for the project include school administrators, teachers, students, and parents. By developing a simple school management system that meets these requirements, the school will be able to streamline administrative tasks, improve communication with parents and students, and make data-driven decisions to improve academic performance.

7. METHODOLOGY

We followed the waterfall model as the development strategy for our project, as required. The waterfall model is a linear project management approach, where the requirements from students and teachers are gathered at the beginning of the project, and then a sequential project plan is created to fulfill those requirements. This model is called the waterfall model because each project phase cascades into the next, following steadily down like a waterfall.

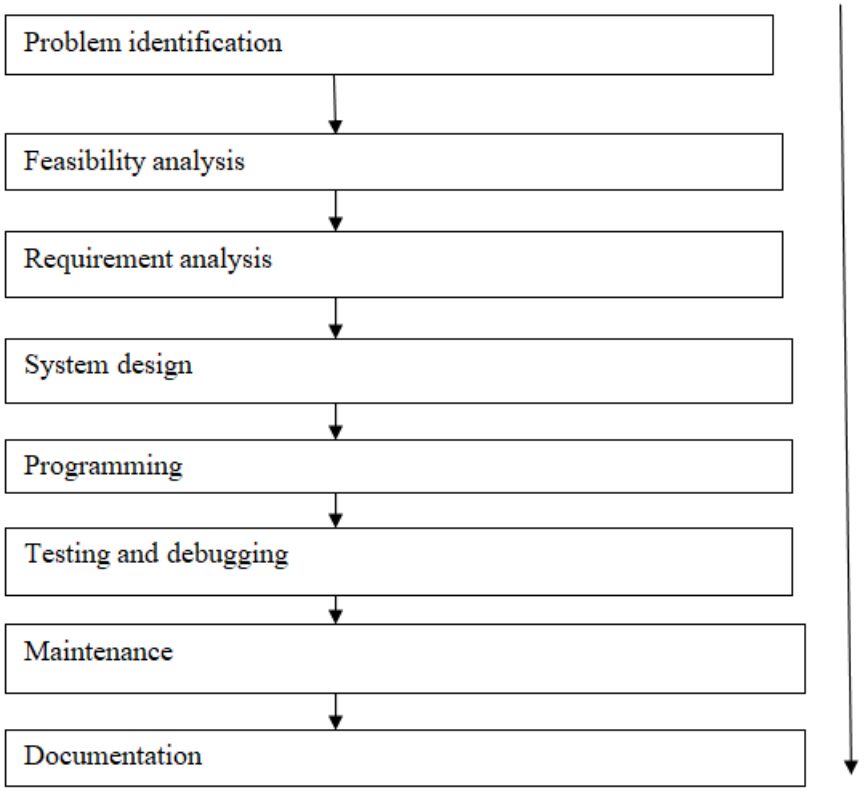

Fig: Waterfall Model

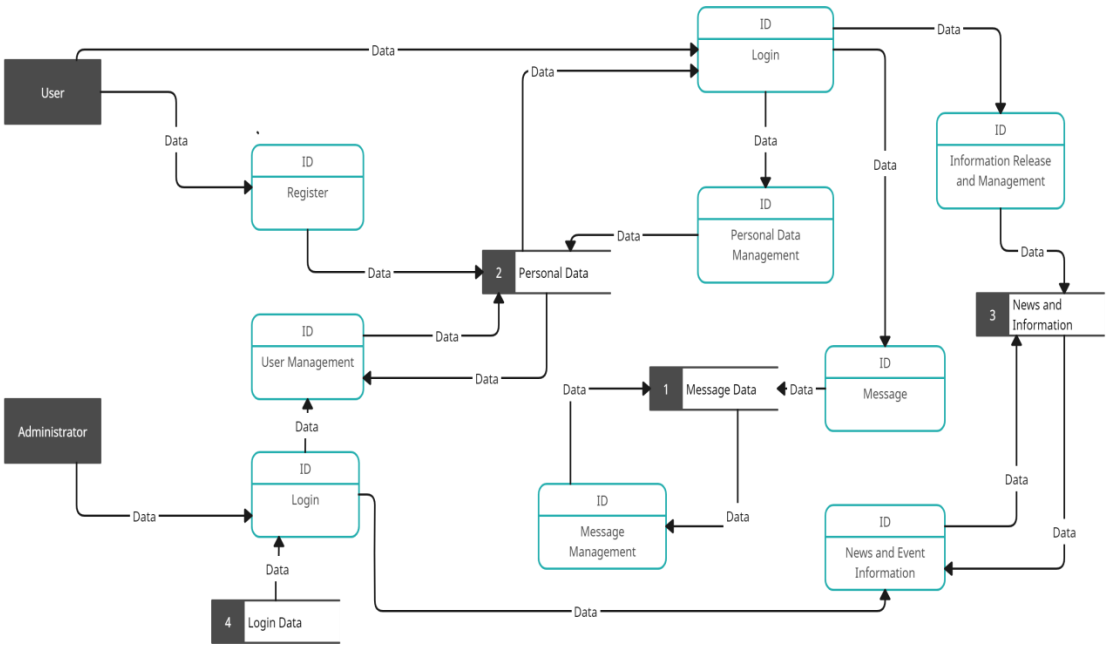

Fig 1: Data Flow Diagram

8. TECHNOLOGY USED

We choose to use Visual Studio Code for coding because of its user-friendly and well-developed development environment. Visual Studio is a cross-platform IDE that can compile and run multiple programming languages. For creating our Data Flow Diagram (DFD), we used Creately because it is easy to manage and edit. To create our Gantt chart, we used Team Gantt. We utilized Discord and GitHub as a common platform to share our work and communicate with teachers and other students in case of any issues. Lastly, we used Microsoft Word to document our project as it is a standard software for documentation.

9. GANTT CHART

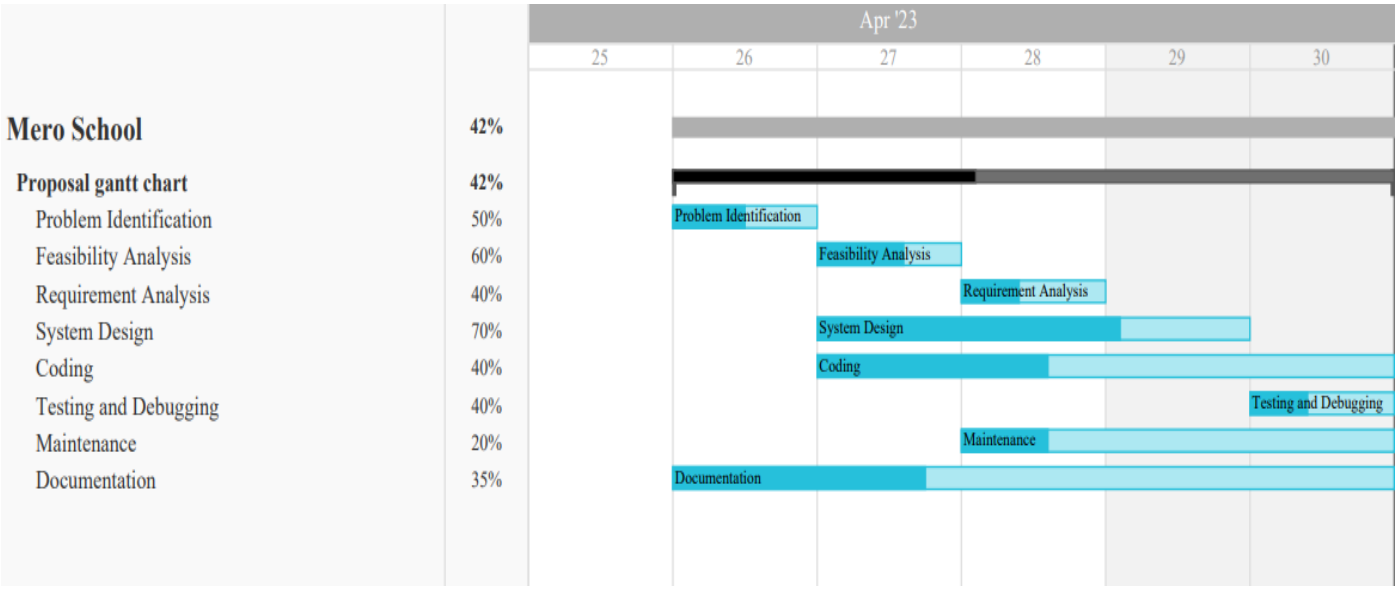

Fig 3: Gantt chart

10.CONCLUSION

Our project focuses on developing an automated school management system that streamlines various activities that take place in schools. The main purpose of "Mero School" is to provide facilities such as student enrollment, record-keeping of students, and to address administrative problems by making our site completely dynamic. The scope of school management systems is extensive and includes ensuring the efficiency of the institution, securing benefits for the school through practical measures, clarifying the function of the school, coordinating the educational program, and enabling sound educational planning. It also provides for good direction, efficient and systematic execution, close collaboration, and a sense of shared responsibility. The system plays multiple functions, including bringing efficiency, guiding pupils to receive the right direction from the right teachers, promoting coordination within the student-teacher-parent society, providing well-defined policies and programs, and fostering a favorable teaching-learning environment that supports the growth and development of human beings. It makes use of appropriate materials and ensures the effective development of human qualities through the execution of programs, arrangement of activities, and the attainment of objectives.

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