



LEGACY COLLEGE OF COMPOSTELA

Dagohoy Street, Poblacion, Compostela, Davao de Oro



“ENROLLMENT SYSTEM FOR LEGACY COLLEGE OF COMPOSTELA BASIC EDUCATION PROGRAM”

In partial fulfillment of the requirements for the Degree of
Bachelor of Science in Information Technology

Proponents:

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September 2022



CHAPTER 1

INTRODUCTION

Background of the Study

The world and technology are always evolving. The businesses are modernizing to a more sophisticated system, which includes computers. One of the key elements that enable businesses to provide the community with high-quality services is the use of computers. We have a big edge over this kind of technology since it may make our jobs simpler. We might achieve better results if we create engaging stuff for our neighborhood.

It is common for students to anticipate issues on the day of enrolling, and these issues may result from bad scheduling and inadequate enrollment flow management. However, students will feel more satisfied with the enrolling process when the academic institutions have a strategy and enough staff to provide services to a large number of students.

Additionally, whether manual or automated, enrollment systems contain a procedure of entering and confirming student information that enables a student to be formally enrolled in a specific school. However, using a manual process or method frequently results in errors or inaccuracies that affect the data and information being processed. Therefore, one of the greatest ways to lessen the burden and give accurate and effective information needed by the school is through an enrollment system. Perhaps this is the main factor for the widespread adoption of automated information systems at colleges and universities across the nation and even the world. Enrollment systems tend to make transactions easier and faster by using less paper. Additionally, it tends to speed up enrollment transaction processing and reduce the quantity of labor required.

In the modern world doing impossible things now becomes possible. As the generation is rapidly changing, technology innovation is also fast changing mostly computers. Computer benefits such as the way of using a certain application for office work or record-keeping purposes. The discovery of the computer was a great help to make work easier. With the help of technology, people's lives become more convenient, and things can be done so fast. Most people now are using technology for the fastest and easiest way of living. To relate all of these to the researcher's study, the researchers want to help an institution to improve the process of enrollment, simply



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by proposing a Computerized Enrollment System that is more effective and much better than the existing enrollment process.

Globally, this project aims to design windows-based enrollment system for the South Eastern University of Sri Lanka. This system is an electronic way of facing enrollment via windows based application. There are so many windows based enrollment systems available in the market. This system eliminates the manual process and provides an easy, efficient, and accurate software-based solution to help in enrollment activities. The main objective of this system is to provide software, which helps the college management to keep up-to-date with all the information regarding students and their academic progress, as well as their course syllabus and fees. The system will enable students to register, select the course, payment. It has modules of admission system and student management system. This software is very helpful to manage admission details. This system provides means for a fast and convenient way to enroll students. The system is user-friendly and less time-consuming. The data will be saved within a blink of time into the database. It also generates clear reports for the needed user. The main purpose of the implementation of the system is to provide easy, efficient, and accurate software-based solutions to help the enrollment process be easily resolved. Moreover, get more advantages from using it. These windows-based enrollment systems enhance efficiency, increase accuracy, and add value to SEUSL more capability. [1]

In the **Philippines**, The Technological Institute of the Philippines Quezon City trainees have always viewed the success of the enrollment based upon the amount of time that invested on the enrollment process. But the students and parents currently get ready for the procedure will be slow. Through this study, the entire Enrollment process need to be made bearable. Every aspect and step of this will be evaluated in order to find the very best solution that will result in the enhancement and betterment of the registration procedure.

Meanwhile, the Legacy College of Compostela Basic Education Program is still not able to implement a computerized enrollment system because there is no access for the enrollment process. All the transactions in the enrollment process are manual. Moreover, in this study enrollment system wants to support the need of the registrar's personnel. This system provides fast, accurate, and easy to use.



Statement of the problem

General Problem:

The study entitled "Enrollment System for LCC Basic Education program." The basic problem with the manual enrolling mechanism at the LCC registrar's office will be addressed by this study. The manual enrollment procedure proceeds very slowly. And we want to migrate to an automated enrollment system to avoid any dispute difficulties throughout the enrollment process.

Specific Problem:

1. The data is not properly secured in excel
The sheets in Excel are password-protected, allowing users to either view the entire document or block it entirely. This is not a good option when users need varying degrees of access, like to read or edit. In addition, because Excel does not have a way to determine who has access to the spreadsheet, if you give the password to the wrong people, your data will be hacked or stolen.
2. Unorganized Document
The staff only using an open book-shelves to store all the documents, which frequently results in missing files or student documents due to the disorganized document storage.
3. Duplication of student's records
Because there are too many documents and the registrar staff frequently enters the same information incorrectly.

Objectives of the study

The main objective of the study is to develop an enrollment system for schools that would provide a fast, accurate, and easy-to-use enrollment and record-keeping system.

The specific objectives of the researchers in conducting this study are the following:

1. To develop a system that gives you the ability to protect your work and to have a proper security to secured the data and information has a way of knowing who is accessing the student record.
2. To develop a system that organized the documents to avoid missing student files and put all the files in the system.



3.To develop a system that has error tapping if you mistakenly input the same information of the other student.

Significance of the study

This study is significant to the following:

Administration

By using the system, the system administrator can easily monitor the operation executed by the users through the use of audit trailing that is part of security features

Registrar

The system can help the registrar staff to make an update if there is a change in the existing information of old student. Also, encoding of complete student information and generating particular reports.

Students

The system will help the students through keeping and maintaining of the students personal information, Also the old students will no longer have to fill up the registration form, because by the help of the system, the registrar staff will just simply modify the student's information if there are changes.

Future Researchers

- The system will benefit the future researcher/s as a guide or reference and adapt ideas to improve the researcher's projects.

Scope and Limitation

This section defines the scope and limitations of the study for the purpose of establishing a cohesive and comprehensive framework of the development of Enrollment System. The problems encountered by the school during enrollment will be solved by the help of the features written in the scope of the Enrollment System for Legacy College of Compostela Basic Education Program.

The Enrollment system comprises of its major functions such as enrollment transactions, system maintenance and reports. Enrollment transactions consists of step-by-step process of enrollment started in the Assessment, Printing of Assessment Form, Printing of Certificate of Registration and Sectioning.

While reports comprise of modules for printing of grade level master list, add school year, section ad adviser, subject and curriculum, subject scheduling.



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As the system hold the information for both students and teachers, it can also be used as an information system. Where all users may search for personal information, schedules.

The system can manage the information of the students, staff, and teachers. The system can also search all records of the students enrolled in the institution according to the grade level. The system also generates reports from enrollment details and reviews of students' information. The system can also add subjects for every grade level.

The system can also create schedules for the students for the school year. The system will be hosted by the researchers to avoid security threats, slow processes, and to make the system faster compared to hosting it online.

The limitation of this system is only for the registrar and students who will be enrolled in the institution. The system does not have account transactions to be paid by the students because it only focuses on the enrollments of the students.

Definition of Terms

For clarity and understanding, the keywords that we used in this study are defined as follows:

Enrollment

Student enrollment refers to the act of signing up for school and/or specific classes or co-curricular activities at that particular school. The enrollment process is completed after a student is granted admission to a particular school.

Enrollment System

It is a system in which the manual process of enrollment of Legacy College of Compostela Basic Education Program will be computerized to minimize the time of the students and staff to manage an enrollment process.

Basic Education Program

The K to 12 Program covers Kindergarten and 12 years of basic education to provide sufficient time for mastery of concepts and skills, develop lifelong learners, and prepare graduates for tertiary education.

Legacy College of Compostela

Legacy College of Compostela Basic Education Program located at Dagohoy Street, Poblacion, Compostela, Davao de Oro. This is where the proposed system will be implemented.



Review of Related Literature and Studies

The computerized enrollment system, according to Thelma Smith (August 2010), will store student enrollees' files in a computer system, reducing faculty staff's effort to periodically store each student's file. This will provide the necessary information in a faster and more convenient manner. An enrollment system's concept is not brand-new. This will only serve as an immediate solution to the increasing enrollment issues by making enrolment simpler. This merely indicates that the school's operation may be impacted by inadequate enrollment system management. Therefore, the creation of a computerized enrollment system will be an immediate solution to preventing enrollment errors. [3]

In January 2010, Ian Sleight stated that schools must have an enrollment system. The school requires all necessary information about the enrollees when a student enrolls for a particular course. The encoder should now enter the student's details into the enrollment system after the school obtains the necessary information from the student. The school is able to track each student's academic progress and standings through the enrollment system. It stores all of the data the school needs to provide stored student data. (January 2010, Ian Sleight). [4]

According to Joshua Jamora (February 2013), student information records are stored in the Enrollment System. A well-built enrollment system can help alleviate the burden placed on individuals who typically perform all manual labor. A good enrollment system is designed to process information more quickly. Enhancing Colegio de Saint Monique's enrollment system. Utilizing a useful enrollment system allows for a reduction in the amount of manual labor required by humans during the enrollment process. The purpose of a good enrollment system is to expedite the enrollment process. The Colegio de Saint Monique school in Binangonan benefits from the enrollment system. [5]

In February 2011, Eilrach Solomon stated, "The school can find an easier and better way to implement an enrollment system by implementing a quick and automated process. "Equipment like computers and printers will be used to implement the aforementioned system's automation. Due to its quick access to grades, users can use this equipment to complete work more quickly and reduce processing time. According to Eilrach, a system that can speed up the enrollment process by quickly accessing student records should be developed in order to reduce processing times. Due to the school's enrollment system's quick and consistent processing, students will feel more at ease with the system that researchers will develop. Solomon, Eilrach (February 2010). [6]



According to Joffy Lomboy (February 2011), enrollment is the process of providing student information to a particular school's registrar for verification. The enrollment procedures that make up the enrollment system are the result of a series of interconnected processes. The enrollment system is especially used for recording and retrieving student data. One of the features of ES is the ability to track student information, allowing the school to track a student's progress. Technology Innovation on the Enrollment System "The proponent's enrollment systems can also easily track student information and tuition," according to this article. Storing, retrieving, and verifying the registered students' data. [7]

Review of Related Studies

According to Dunn and Scott (2005), a person in this field of expertise has been reshaping the landscape of the business world today for many years because science and technology are the source of new innovations. The enrollment system has had a big impact on schools because it is based on innovative program strategies and allows both the enrollment staff and students to quickly and easily process enrollment, which is different from traditional enrollment. [8]

An online enrollment system can collect all of the information into a central hub, making it easy to access and modify registration information. According to the website of schoolMint.com (2013), an online enrollment system can instantly add registration information to the database without the need to enter the information into a registry by hand. This dramatically speeds up the registration process, frees up employees to do more useful tasks, and increases accuracy by cutting down on the number of data entry errors that could cause problems faced by the Boston school district such as false addresses and students who have. [9]

The International Journal of Emerging Technology and Advanced Engineering (2022) says that when waiting times are long and crowds form, an educational institution's enrollment process gets very complicated. The most efficient approach to addressing this issue is to use technological tools. As a result, the purpose of this study is to use a digital enrollment system to improve the processes of an educational institution's enrollment management. The digital enrollment system was developed over the course of four phases. Planning where the requirements for the system were described. Design In accordance with the established requirements, a straightforward model was selected. Coding the system's structure, customization, and operation were aided by programming languages. Test Errors in the system were found. In this sense, the digital enrollment process, including student enrollment, registration, and reports, was optimized to reduce crowds, time, and effort required by humans. In times of pandemic, it made it possible for the institution and the students to collaborate from a distance. It was a technologically innovative tool that cut down on the time it takes to



enroll students in a fair and transparent way. It also ensured that everyone would have equal access to remote education opportunities and freedom of choice. [10]

Frank (2003), according to Dzubeck, is a comprehensive system. It includes databases, searching, retrieving, and updating student records, checking students' schedules, and calculating fees, among other functions. Proponents of an online enrollment system have developed it specifically for schools with a large number of students, drawing inspiration from the development of modern technology and the difficulties associated with enrollment transactions. The proposed system is designed with several aspects in mind. First, the time-consuming process of filling out application forms and the students' inaccurate information that causes enrollment delays. Another is that enrollees' schedules were not given or announced correctly, which caused them to be late for their first class. [11]

Program Design

The screenshots below are of the admin's graphical user interface (GUI), which contains all of the system's capabilities. Other system users have the same program architecture but are limited in certain functions due to the user's scope and limits.

This form is the security of the system, the user will log-in first, before it can access the system.

Please Provide Your Login Details

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ENROLLMENT SYSTEM

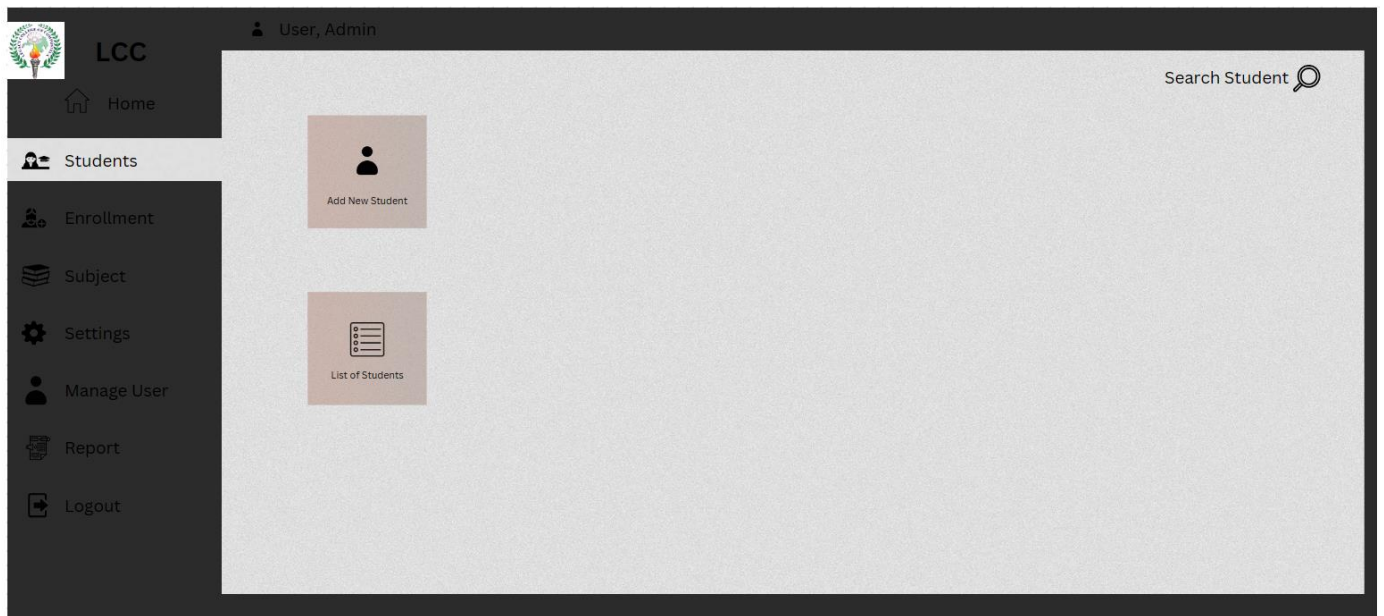
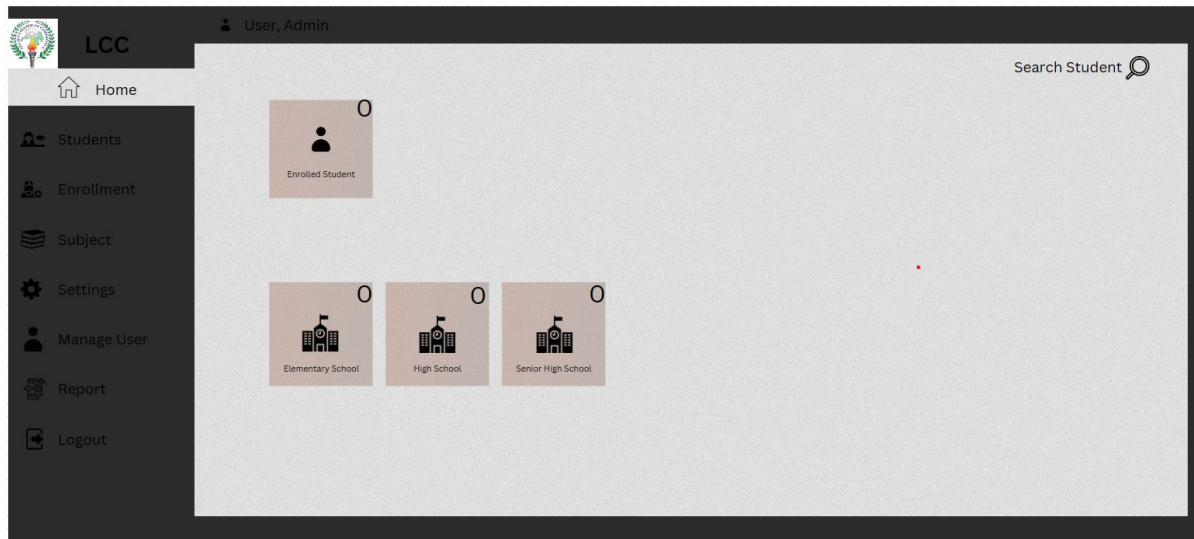
Login

Figure 1.1- User Login: This figure shows the login form that enables the user to interact with the system.



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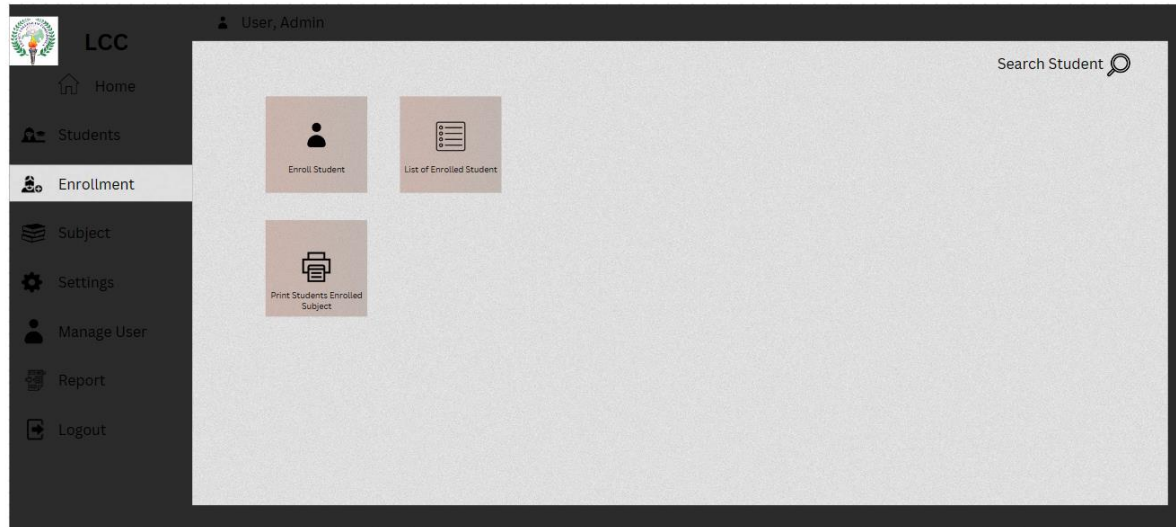
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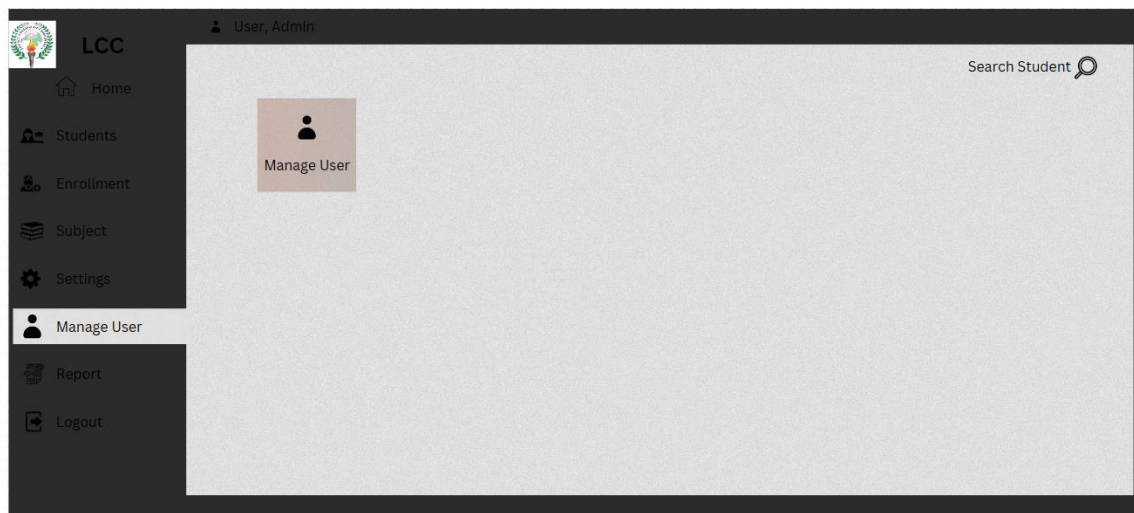
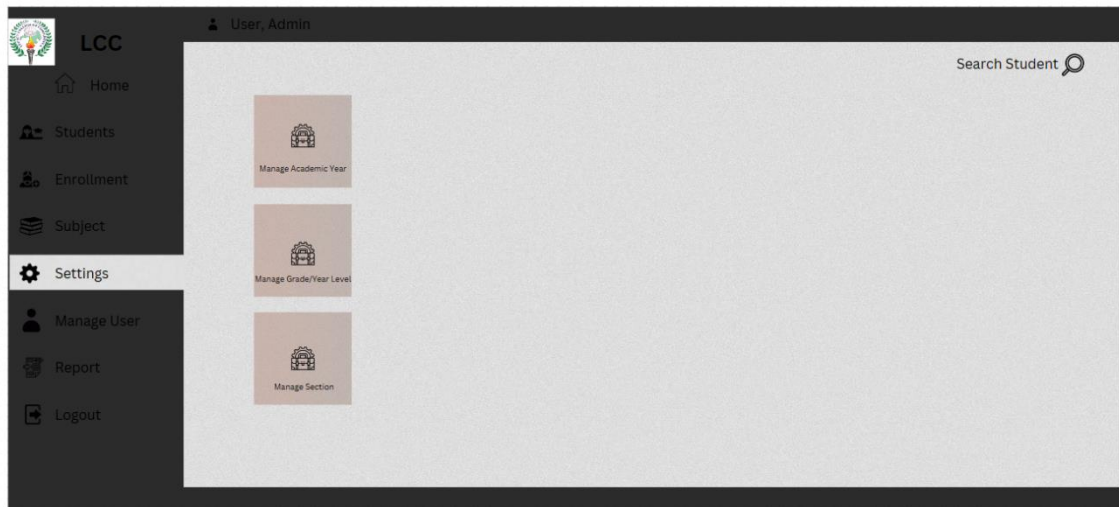


Figure 1.2- Homepage: This figure shows our system main menu.



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Register New Student

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Student ID : 20230001

Basic Information

Last Name:	First Name:	Middle Name :
Balaga	Rico	Galgo
Address :		Place Of Birth :
San Roque, New Bataan, Davao De Oro		Poblacion New Bataan, Davao De Oro
Date Of Birth :	Age :	Sex :
2001-09-21	22	<input type="radio"/> Male <input type="radio"/> Female
Guardian :		Weight (kg):
Rosemarie Balaga		70
Contact Number:	Height (cm):	
09565508598	6'9	
Address :		
Mapaso, San Roque, New Bataan		
Last School Attended :		School Year :
		2012-2013

Requirements

- ☒ Report Card/Form 138
- ☒ NSO Birth Certificate
- ☒ 2pcs. I.D. Picture (2x2)
- ☒ Certification
- ☒ Good Moral

Save, Refresh, Cancel icons

Figure 1.3- Student Registration: This figure shows the entry of the student's initial information.



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IDNO	FULL NAME	SEX	AGE	ADDRESS
20004277	Rico Balaga Galgo	MALE	23	Compostela, Davao De Oro
20001937	Kate Estandarte Obinay	FEMALE	25	Compostela, Davao De Oro
20001648	Edrhiane Alivio Zamora	FEMALE	22	Compostela, Davao De Oro

Figure 1.4- List of Registered Students: This figure shows the list of registered students. The initial information of the registered will be updated by the registrar's user account. There are also Edit, Add, Delete student's button in this form.



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Enrollment Form

List Of Student

Search for Student Name :

IDNO	FULL NAME
20004277	Balaga, Rico Galgo
20001937	Estandarte, Kate Obinay
20001648	Alivio, Edrhiane Zamora

Enroll Student

Student Details

Name : Balaga, Rico Galgo

Grade or Year Level

Level : Select Section : Select

Update Status

Track : Strand : Specialized Course :

Subjects

Save Clear Close

Figure 1.5- Enroll Student: This figure shows the form of entering student's complete personal and enrollment information from the issued enrollment form



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List of Enrolled Students

Search for Student Name

IDNO	FULL NAME	SEX	AGE	ADDRESS	LEVEL	SECTION	AY
20004277	Rico Balaga Galgo	MALE	23	Compostela, Davao De Oro	Select	Select	2012-2013
20001937	Kate Estandarte Obinay	FEMALE	25	Compostela, Davao De Oro	Select	Select	2012-2013
20001648	Edrhiane Alivio Zamora	FEMALE	22	Compostela, Davao De Oro	Select	Select	2012-2013

Figure 1.6- List of Enrolled Students: This figure shows the list of enrolled students and complete information of the students and also have a print button.

This is a certificate of Enrollment when you click the print button in the list of enrolled Students form.



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CERTIFICATE OF ENROLLMENT

IDNO:2022005

SCHOOL YEAR: 2022-2023

NAME: Balaga, Rico Galgo

YEAR/SEC: GRADE 7_A

Subject	Description
English 1	Developmental Reading
History 1	Philippine History and Culture
English 5	Business English and Correspondence
Student Teaching	Practice Teaching
English 02	Developmental Reading 2
Psychology 1a	General Psychology with Moral Regen & Drug Abuse Ed.
English 40	Applied Linguistics

Office In-Charge

Signature over printed name



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Figure 1.7- Add New Subject: This figure shows the form for adding new subjects, providing description and grade level

SubjectID	Subject	Description	Level
11	Theology 1	Faith and Creed and Basic Catholic Doctrine	Grade 7
12	English 0	English Plus	Grade 7
13	English 1	Developmental Reading	Grade 7
14	Theology 1	Faith and Creed and Basic Catholic Doctrine	Grade 8
15	History 1	Philippine History and Culture	Grade 7
16	Psychology 1a	General Psychology with Moral Regen & Drug Abuse Ed.	22
17	Chem. 1	General and Organic Chemistry	22
18	Philosophy 1	Introduction to Philosophy	22
19	PE 1	Physical Education	22
20	NSTP 1	NSTP	Grade 7
21	Theology 2	Bible and Salvation History	22
22	English 1	Study and Thinking Skills	22
23	English 02	Developmental Reading 2	22
24	Math 2	Modern College Algebra	22
25	Nat. Sci. 3	Physical Science	22
26	Philo. 3	Logic	22
28	PE 2	Rhythmic Activities	22
29	NSTP 2	NSTP	22

Figure 1.8- List of Subjects: This figure shows the form for the list of subjects.



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Manage School Year

* Example input of sy: 1990 - 1991 *

School Year :

Save

Search :

ID	School Year
4	2012-2013
1	2013-2014
2	2014-2015
3	2015-2016
5	2016-2017

Delete

Figure 1.9- Manage School Year: This figure shows the form for managing the academic year and providing school year.

Manage Grade / Year Level

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Level

Save

Search :

ID	LEVEL
1	Grade 7

Delete

Figure 2.0- Manage Grade Level: This figure shows the form for managing grade levels. Input the grade level, search, and delete.



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Manage Sections

Section : Makopa

Grade/Year : Grade 7

Save

Search :

Delete

Figure 2.1- Manage Sections: This figure shows the form for manage sections, input section and selecting grade level, search and delete.

Manage Users

User Details

Name : Rico Balaga

Username : rico21

Password : •••••

Type : Administrator

Full Name	Username	Type
Administrator	admin	Administrator

Save Refresh Delete Cancel

Figure 2.2- Manage Account: This figure shows the form for managing accounts: provide the user's details, name, username, password, type, save, and delete.



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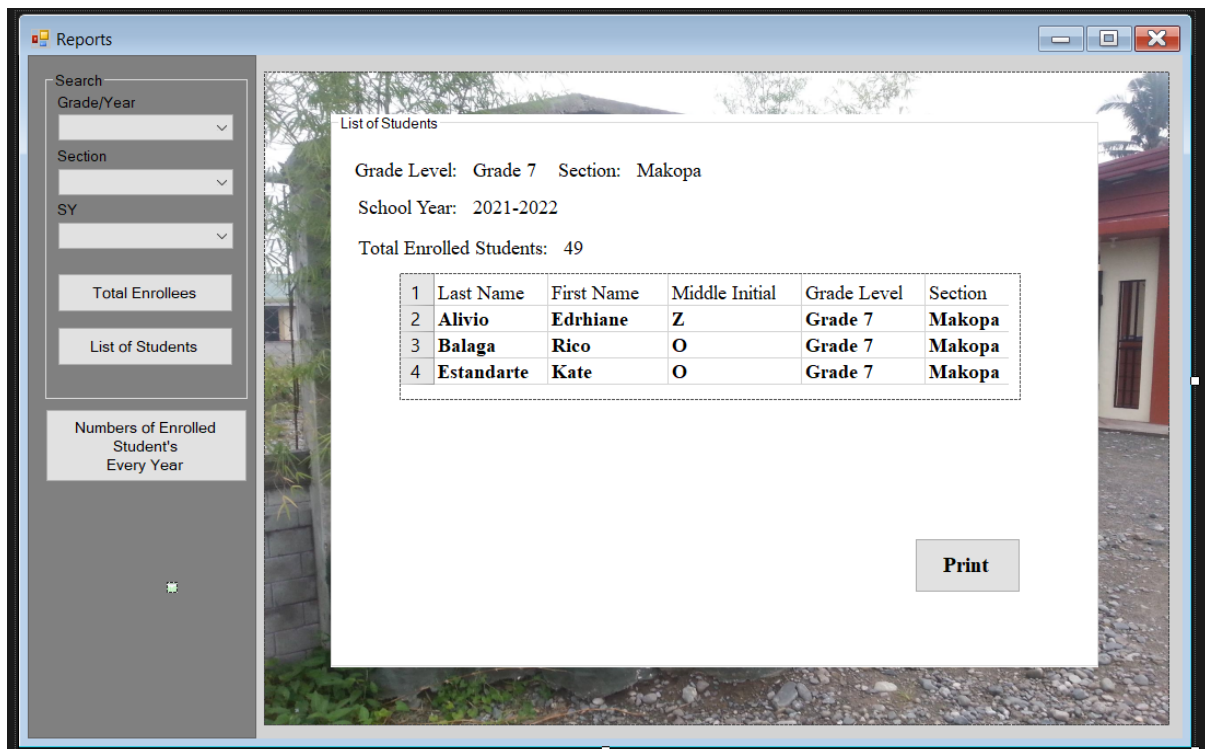


Figure 2.3- Report of Master List- This figure shows the list of students in every grade level.

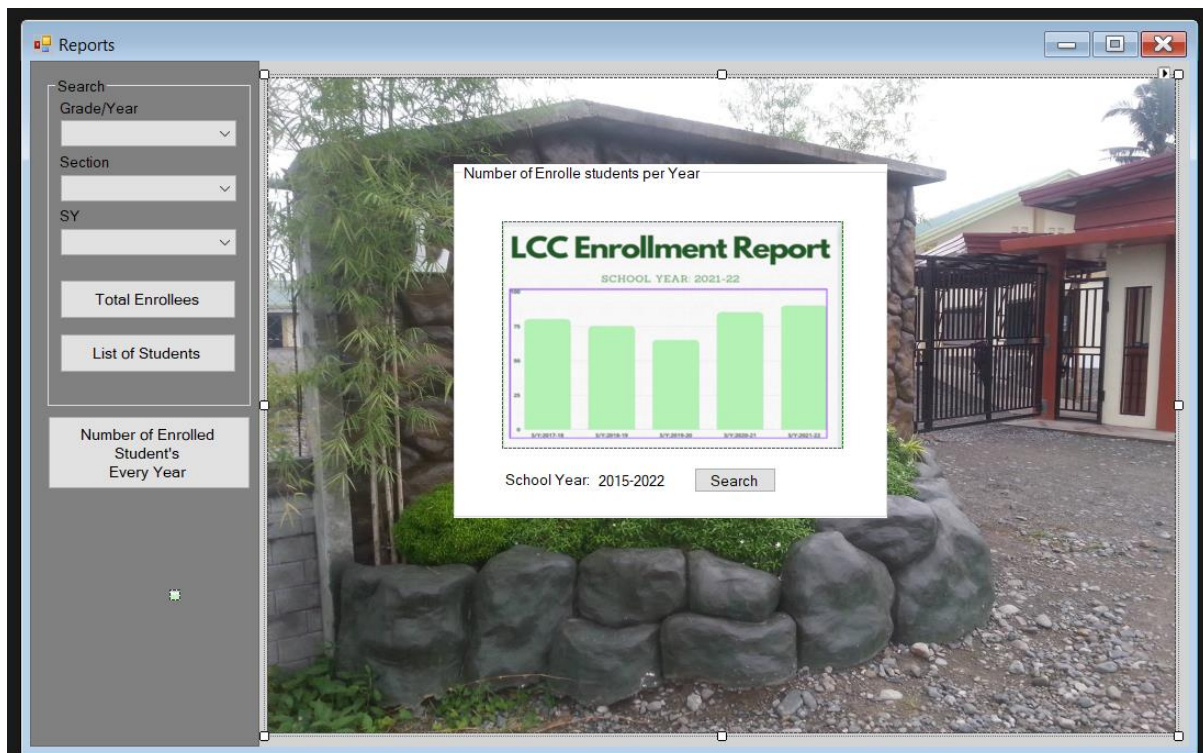


Figure 2.4- Report of Enrolled Student Every Year: This figure shows the report of enrolled student's in every school year.



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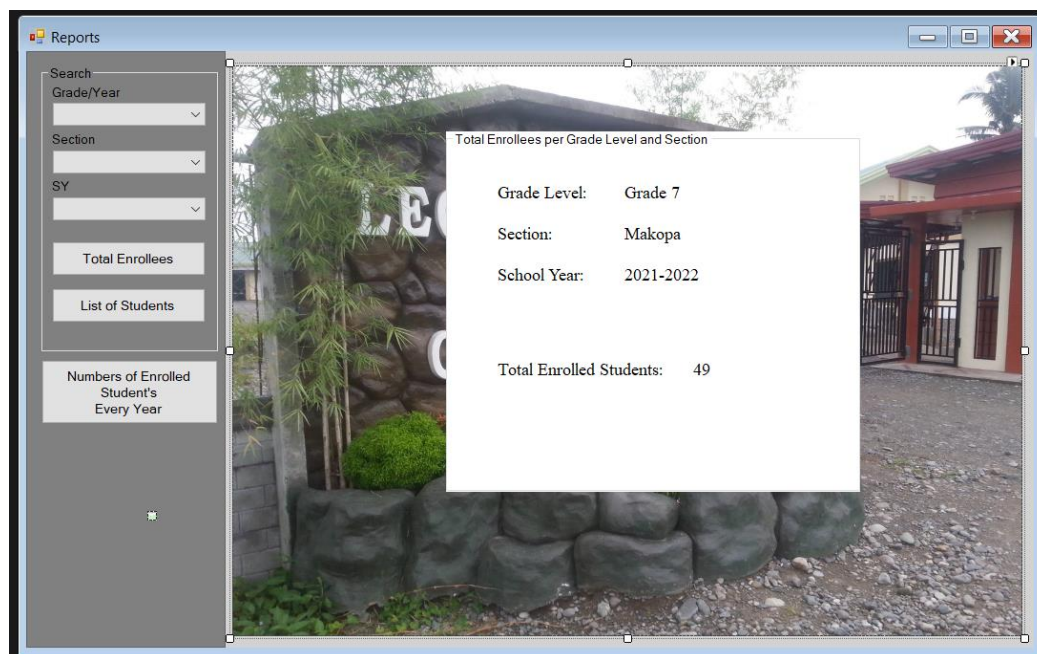


Figure 2.5- Report of Total Enrollees per Grade Level and Section: This figure shows the report of total enrolled students per grade level.

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Display of Subject

Grade Level: Grade 7 Search

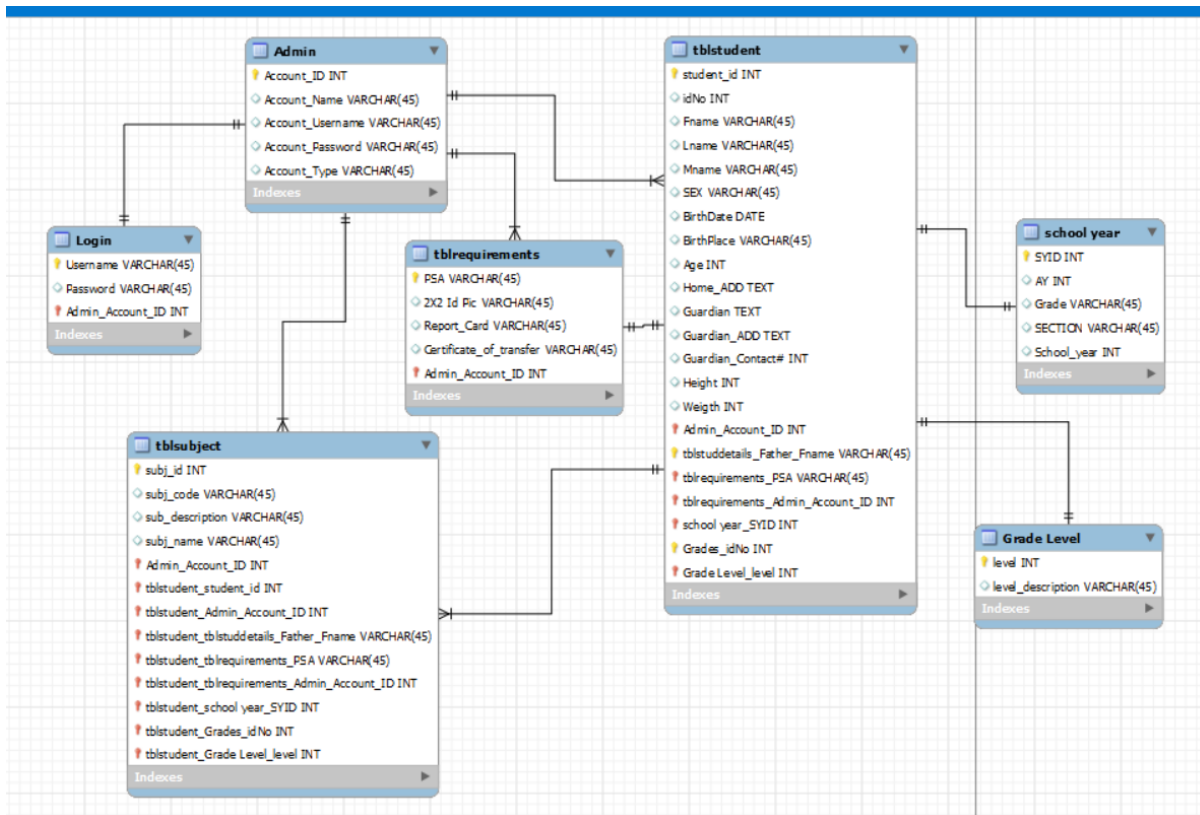
SubjectID	Subject	Description
11	Theology 1	Faith and Creed and Basic Catholic Doctrine
12	English 0	English Plus
13	English 1	Developmental Reading
15	History 1	Philippine History and Culture
16	Psychology 1a	General Psychology with Moral Re Drug Abuse Ed.
17	Chem. 1	General and Organic Chemistry

Update

Figure 2.6- Curriculum view for comprehensive display of subjects.

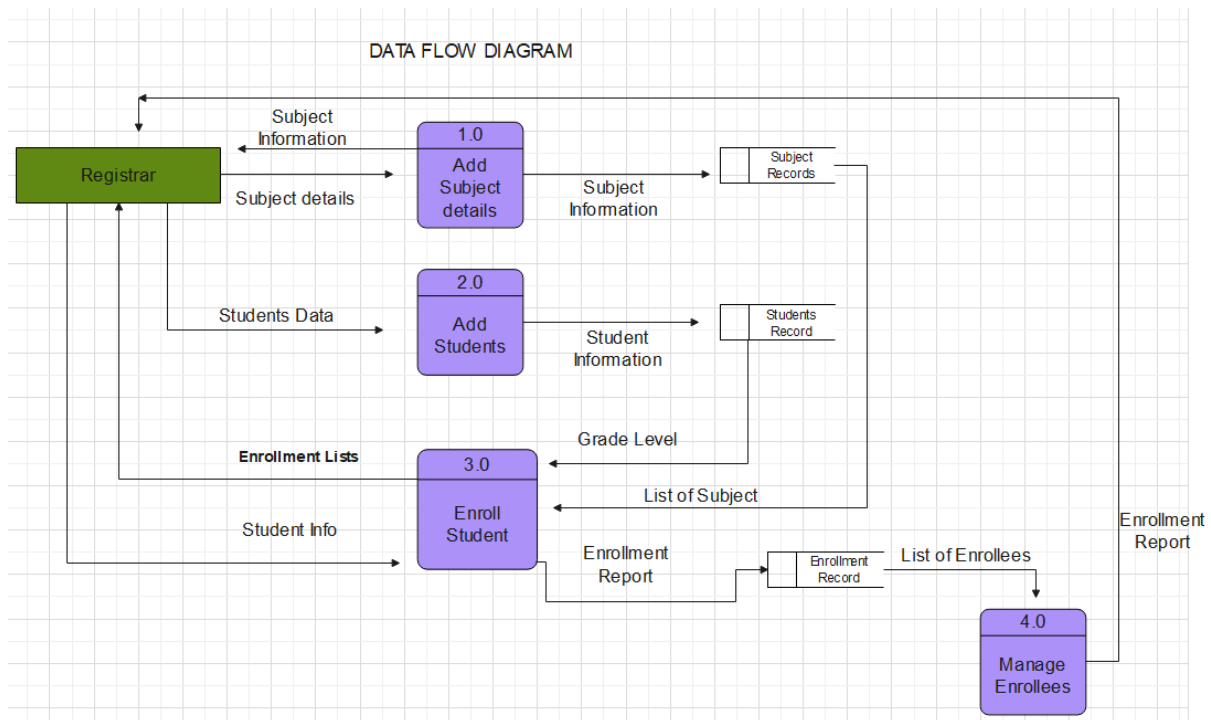


Entity-relationship model

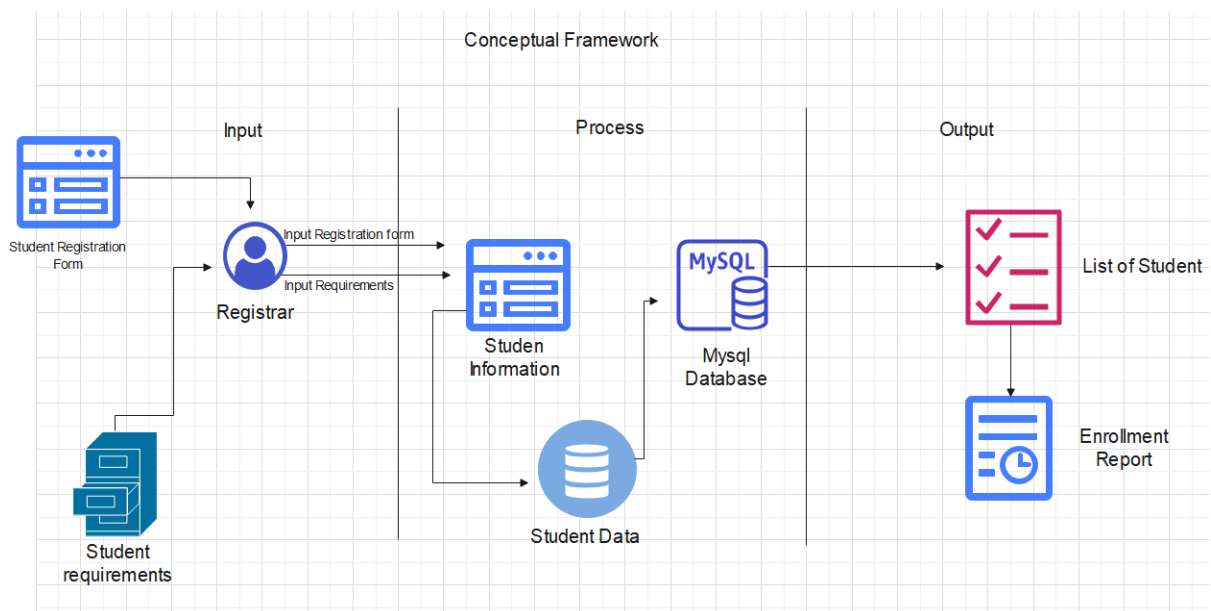




Data Flow Diagram



Conceptual Framework





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