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by Alhena Kacey

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Students Enrollment and Grading System with Multiple Notification in

Abuyon National High ¹School

A Project Proposal Presented to the

Faculty of the College of Arts and Sciences

Information Technology Education Department

Eulogio “Amang” Rodriguez Institute of Science and Technology

In Partial Fulfillment of the Requirements in

Thesis 1

By:

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S.Y 2021-202

Approval Sheet

Request of the College/Institution	
EULAN, DE AMARANTO, RICHARDUEZ INSTITUTE OF SCIENCE AND TECHNOLOGY Taguig, Manila, Philippines College of Arts and Sciences	
Date: 1. The College Principal (B) Rep: Atty. Gen. San Nicolas, Quezon Dear Sir: Please,	Date: 28, 2022
Good day!	
We, the 2 nd Year students from College "Agriway" Rodriguez Institute of Science and Technology (FARIST) in support of College of Arts and Sciences Department (C-AS), currently enrolled in the subject entitled "Capstone Project and Research" are would like to ask for permission to conduct a research study at Abayan National High School.	
The project will allow the researchers to perform an interview and gather information for further knowledge and understanding in Abayan National High School operations on data gathering and other related processes that are considered useful for the completion of the project especially in the design and development of business applications to meet research goals.	
We are assured that all the data gathered will be treated with the utmost confidentiality and for academic purposes only.	
Thank you very much to your cooperation with us, it was a pleasure to serve you with our credibility and integrity.	
Respectfully yours, Flores, Jaydine G. Cajayon, Aira Mae L. Sagoldi, Mary Joy L. Explana, Sarah Mae M. Researchers	
Signed by: Dr. Jaydine G. Flores Team Advisor	Signed by: Mr. Elias E. De Castro School Principal

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Chapter 1

THE PROBLEM AND ITS BACKGROUND

Introduction

Computers are only one of the numerous modern inventions that have had a major impact on how we live. It is acknowledged as a crucial instrument in a variety of fields, including business, government, industry, sciences, education, school, home, and virtually every firm and establishment that has ever existed. By using this system, the amount of time and effort needed to complete a given activity is reduced because they can process data quickly, correctly, and reliably. Computers nowadays have been the most needed for processing the data and information. Computers have proven to be very effective in many areas of work and research. It definitely helps people to make our task much easier and with great precision. We can use computers in schools and universities to maintain the basic flow of data and information and to check the credit status of students. The computer is extremely helpful in data and information processing, as well as in securing files, data, and information belonging to schools and individuals. Computer programmers nowadays strive to create high-quality, functional systems. A computerized management system ensures a consistent flow of data and information while also making it faster and easier to process the data. These computerized systems assist a single person, company, organization, or any type of management agency anywhere in the world in raising and developing its overall profile.

The required data and records will be available via student Enrollment and Grading system. By keeping a file of the student enrollees, information may be stored quickly and more conveniently. With this technique, it is possible to quickly access the data that has been saved without having to worry about losing any individual files. An intuitive interface can be seen on the main menu. Additionally, it makes it simple to enter data into the database and to search for, update, and delete it. The proposed program can provide accuracy while reducing paperwork. With just a few buttons clicks and the use of the database system, the user of the application can do the task quickly and easily.

Student Enrollment and Grading System is a system that use to make the enrolment easier and to overall track the quarterly grades of students in the Abuyon National High School. there is role-based admin record that can guide and send message to parents with the use of this system, Then, in here the multiple notification is used to notify the parents of the student's grades and also to notify them every important announcement from school.

Background of the Study

This system's goal was to help the admin to lessen their work for the enrollment and keep track of student grades on a quarterly basis and to let parents know how their kids were doing academically. Students' grades and information are recorded in a particular database.

The system had two main functions: first, it could get student grade information; and, it could notify parents via multiple notification if their child had passed or failed; second, it could save time and effort to make the enrollment

process. Additionally, this approach improves the organization, effectiveness, and efficiency of the school administration process.

Project Context

The enrollment process and record-keeping are currently handled manually at Abuyon National High School. They employed the manual system from the moment it began to function. The processing of the student records and data was very inaccurate and inefficient as a result of the current enrollment system. Too much time and effort are expended, making it impossible to deliver on time. As a response to this problem the proponents aim to help the school for managing the information and enrolment of the students, with the help of students' enrolment and grading system it will help the teachers' difficulties in enrolling the students and also the students and parents can monitor the grades by sending the grades of the students via multiple notification using the system. As the face-to-face classes will be back next school year as desired by the beneficiary, proponents decided to use a Student Enrolment and Grading System.

Purpose and Description

¹⁸ The goal of this research. is to develop a system that will help the teachers and students in Abuyon National High School to lessen and fasten their work for enrolment process and record the grade of the students, the system that will save information both students and teachers, system which the administrator can send the grades to parents via SMS, Messenger and Email notification. The proposed system could replace the schools' current manual process of enrollment with offline based software allowing the authorized users to secure the students data.

Conceptual Framework

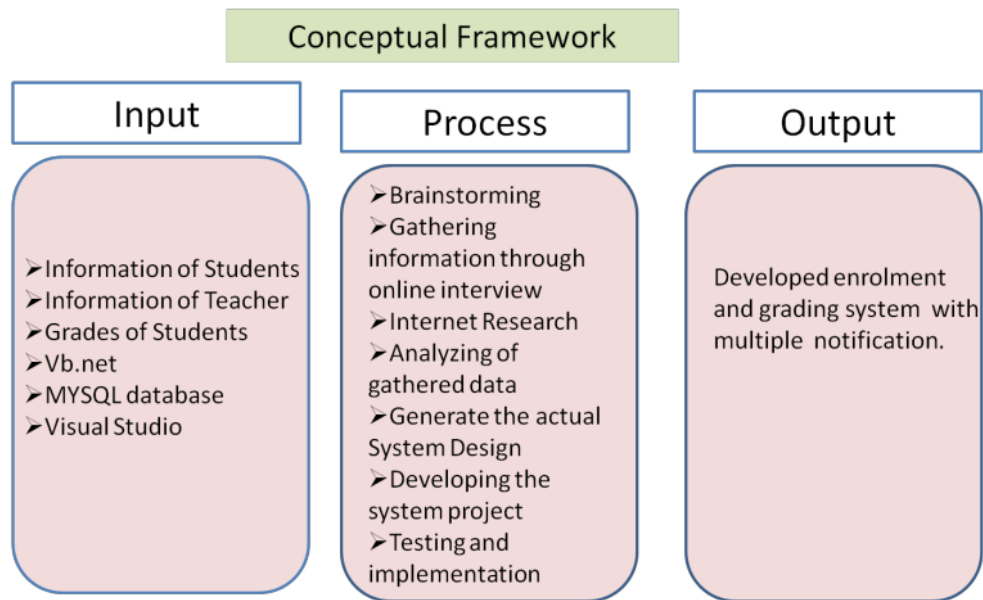


Figure 1. Conceptual Framework

The relationship between the studies' input, process, and output is depicted in Figure 1. The input used to build the "Students Enrollment and Grading System" model provides the features that were taken into account. The method demonstrates the foundation upon which the study's final product, and Students Enrollment and Grading System with Multiple notification, will be built.

Objectives

The objectives of this project study are classified into three parts to identify and address the existing problems associated with the manual process of encoding the students' information and grades, and to develop a better system that meets the needs of the beneficiary.

This project is then developed to achieve the following objective:

1. Identify and address the problems associated with the manual process of enrollment of the students.
2. Develop a system to improve the method for recording student and teacher information.
3. To send students' grades and announcement to students and parents via multiple notification.
4. To test the functionality of the system using the criteria under ISO25010.

Significance of the Study

A significant benefit for the Teachers would be the generalization of this study. The following in particular may benefit greatly from the study's findings and significance:

Teachers- which will have the ability to effectively manage the students' grades and information.

Students- the development of the study is to lessen the burden in enrollment through the Student Management System

For further Research

This study might be used as a source of more information for creating an improved Enrollment and Grading System.

Finally, the study is important since it will give teachers a tool to suit their demands, enabling them to complete their work quickly by entering the student's information and grade.

¹¹ **Scope and Limitation of the Study**

Scope

The range of the student's enrollment and grading system is the administrator can manage the teachers, students, subjects, grades, school year, sms report, and enrollment information, and also the administrator can send the grades of students to the parents via multiple notification, and it can store the grades of students every school year, students' management system is aim to help the teacher to lessen and fasten their work.

Limitation

The system is for administrators, staff and teachers only, it also can't be accessed online and can't send text messages if there's no signal.

¹⁴ **Definition of Terms**

The following terms were defined and classified according to how they were used in the study so that the researchers could better comprehend them.

⁵
SMS- Short Message Service, or SMS, is the industry term for texting. It allows for the transmission of up to 160-character text messages solely between phones.

Dashboard- A dashboard is a visual display of all of your data.

Administrator- a person who manages and supports a computer system or network

Computerized- A computerized system, process, or business is one in which the work is done by computer.

¹³
MySQL- is an open-source relational database management system (RDBMS) built on Structured Query Language with support from ¹⁶ Oracle (SQL). Almost every platform, including Linux, UNIX, and Windows, supports MySQL.

Vb.net- Microsoft created the computer programming language known as Visual Basic.NET, or VB.NET.

Database- any set of facts or information that has been structured specifically for quick computer search and retrieval

Enrollment- is the act of enrolling at an institution or in a class.

Chapter 2

RELATED LITERATURE

Foreign Literature

According to Ogbuokiri and Agu (2015), Goals of mobile applications for student's Registration is intended to help students by enabling them to access the internet at their chosen location anytime, anywhere. According to this study, successful use of this mobile application is to speed up the registration process, minimize errors, and improve performance. This reduces the workload while delivering accurate information to schools. This reduces human error and facilitates access.

According to Ekhsan M. et al., (2020) Elementary school's ¹⁷ notification system will be able to forward information directly to mobile phone of all parents by using this system with an SMS gateway. The traditional method of keeping parents informed, they used letters and notes to notify the parents, making the letters will consume time and the parents probably may not be received updated information. This integration will be able to distribute the information from computers to mobile phones at any time without the need to have meetings in person or using ⁸ of other mediums such as paper-based or verbal communication from students. Plus, parents can stay aware and informed of the latest announcements and information wherever they are.

Wang, Y. (2020).Independent college and university Enrollment is a ³ difficult task for colleges and universities. with the Development of Information Technology, when universities and colleges conduct independent admissions, a lot of data hits in no time. Statistical analysis of the data poses difficulties for common independent registration management systems. ³ This paper relies on

quantum evolutionary algorithms to optimize an independent enrollment system, with the aim of sorting and optimizing enrollment, and the student management workflow provides real-time data query and analysis services.

Foreign Studies

According to the Authors, In this study, SMS notifications will be sent to parents every periodic grade by subject or course. According to the author, students may not know their grades throughout the year. You need a system that can send SMS notifications and provide grade and course information. This system is a solution to make final grade calculation easier and faster.

The system can provide performance reports and notify parents by sending SMS notifications of periodic and final grades. Teachers can encode periodic student grades. A final overall average is calculated by the system. All data required by students is stored in a database server that manages all data of users.

According to Wang and He (2019) In recent years, mass enrollment has been a major change in the university admission system. We will change the situation of university entrance examination volunteers, "choices of life", and realize mass enrollment of students to universities. After fully understanding the specific content of the chosen major, students choose their major of their own volition. Establishing a reasonable login and redirection system is therefore a necessary requirement to achieve this goal.

Local Literature

According to Forman (2016), Without the fear of losing any file this be see scan in just a second. The idea of automated enrollment systems is not a new concept. Every year, the students' enrollees will grow and the enrollment procedures will ¹ harder to deal with. This only serves to solve the registration problem by providing an easier way to register.

This system will be an effective tool for managing information on registration-related transactions. Forman explained that continued innovation in technology can lead to organizational change, from improving day-to-day operations to making it easier for end-users to access. Today, many schools have adopted this innovation to offer their services.

Silaya J. et al (2020) Enrollment is the procedure to input and verified a student's information for admission to a chosen school. This ² is one of the most important qualifications for schools. Precise and efficient admission forms will ensure a good quality of the school for potential students. The admission process provides faculty with the opportunity to fill in the required dates for admission. A registration system has been proposed to replace the manual registration process in order to streamline the transaction flow and facilitate the work.

According to Campos (2019), Computerized Enrollment systems allow for faster systems, but manual systems often take longer to complete. Manual enrollment systems are time consuming and usually cause transaction delays. This proposed system aims to improve transaction processing and reduce the work and responsibility of personnel. Compared to the manual enrollment

process, this system makes registration much easier, faster and more accurate. Minimized human error and processing time.

According to Agustin L. et al (2019), This system was designed to improve the admissions system in terms of handling large numbers of enrollees, including schedules and quotas for each section. This study focuses on of most important information system used by this academic institution registration system also includes Section Plans, Sectioning of Classes, and Supervision Registration Requirements. Transaction Processing Systems Can Make Transactions Faster and Easier.

Resnera, J. et. al (2020) The admission system is one of the most essential and obvious systems not just in universities but also in other schools. Precise and effective enrollment records help prospective students make a positive image of your school and encourage enrollment. The purpose of the registration process is to allow school personnel to input important information during registration. As enrollment increases each year, the admissions process becomes more difficult to manage. It ¹ also increases the amount of information that needs to be written down, which slows down the process and confuses staff and faculty.

Local Studies

According to Esteves, A. et al. (2020) The Enrollment system was built as a result of the enormous enrollment at Bagong Silang High School in order to

expedite the processing of each student's data. The registration system speeds up, makes it simple to find student records and prevents the loss of yet another document. The enrolling process is created to exercise skills related to student enrollment to overcome ² the slow process due to a lack of computerized systems. The software system has been quite useful in coding for students. Manipulate student encoding with simple and clear processes in your computerized system. The system used to encrypt the data of each student was effective, which contributed to the success of the enrolling process.

According to Pacheco A. et al. (2021) The registration process for educational institutions becomes very complicated when waiting times and congestion occur. The best solution to this problem is to employ technical tools. This study therefore aims to optimize the process of structuring admissions administration for educational institutions through the implementation of digital admissions systems.

With this in mind, the digital registration process has been optimized. B. Student Registration, Enrollment, and Reporting, Reduced Congestion, Time, and Human Effort. Enabling distanced collaboration between educational institutions and students. This was because it was a technological and innovative tool that shortened the registration process in a fair ¹ and transparent way and guaranteed freedom of choice and equal access opportunities to remote education in times of pandemic.

According to Elizalde L. Piol (2019) The Taal High School web-based enrollment and computerized enrollment system is proposed as a complement to the school's existing manual enrollment system, specifically to provide Taal High

School administrators with an organized transaction flow and workload. This research focuses on how existing systems work during student enrollment and admission.

² Development of Web-based Enrollment and Computerized Enrollment System for Taal High School has a registration form that can be filled out and submitted, as well as a computerized enrollment system. This allows administrators or school registration agencies to collect and retrieve student information. The registrar workload required for multiple registrations can be greatly minimized. Registrants can also see if their information has been submitted. The system is satisfactory in terms of functionality, efficiency, dependability, usability, maintainability, and portability, according to the results.

⁶ According to Bognot A. et al (2021) Student Enrollment is the process of registering to go to school, college, or university academic year. ⁶ The enrollment process is completed after a student/enrollee has been admitted to a particular educational institution. For universities, students can choose in any course or subject they desire. The enrollment process is one of the most difficult factors to measure in an educational institution and ultimately important for both the student and the institution. Current registration processes are typically slow and require a lot of effort on both sides.

According to (Binayao et al., 2012), The online registration system Proposed improvements to the current Liceo de Cagayan University registration procedure. ⁷ This study focusses to create a system that would provide alternative options for admission and compensate for the school's understaffed and time-

consuming system. Intended for shift workers, it offers services such as subject assessment, grade publishing, curriculum insights, and profile additions and updates. The solution shortens the registration process, expedites file administration, and minimizes errors and inaccuracies.

Synthesis

Articles and materials evaluated to create a software proposal can be associated with the current survey in the following ways:

The above concept of computerizing the registration system and records serves as the basis for the development of a school registration system that reduces the time and effort required by teachers to update student records and, so it is in the current project. It is related.

A computerized registration system is more efficient than manual processing. In addition, a database to hold student information is essential, information on the learners is essential to keep on file for as long as possible so that they can be referred to and recognized as qualified for the next phase of goal achievement. One student is recognized by the tract record. For related investigations, authorized persons only can access the system. This is related to the proposed system, which would restrict access to teachers and administrators only.

Chapter 3

RESEARCH METHODOLOGY

Technical background

The school's current process for enrollment is done manually and lacks essential tools to fasten their work for the enrollment process, to encode the students' information and grades. For the implementation of the system, the school will provide computer units.

To protect the data of the users and the students the proponent will use ¹² RBAC (Role-Based Access Control), Role-based Access Control is an access control approach that grants permissions to end-users depending on their task within your organization and also this can lessen the risk of cyberattacks, protect sensitive data, and guarantee that employees can only access the data and take the activities necessary to execute their task. The proponent will use the waterfall model in the creation of the system.

Approaches and Techniques

Methodology

This study, descriptive research design is defined as a research method showing the importance of having a student's enrollment and Grading System in Abuyon National High School. As was used where data was collected from our beneficiary and also to our respondents at one point at a time. The design always focuses on the importance of the Students Enrolment and Grading System in school. It can also be seen here every piece of information of students, and grades. The data for this study was further collected from the teacher who manages the enrollment system of the school. Create a more efficient student enrollment process in Abuyon National High School, reduce the time spent on administrative tasks and keeping and recording the information of the students.

The process of creating a software system is called the system development life cycle. The SDLC is a multi-phase procedure that involves continual improvement. The proposed student management system with SMS grades notification was developed using a waterfall model.

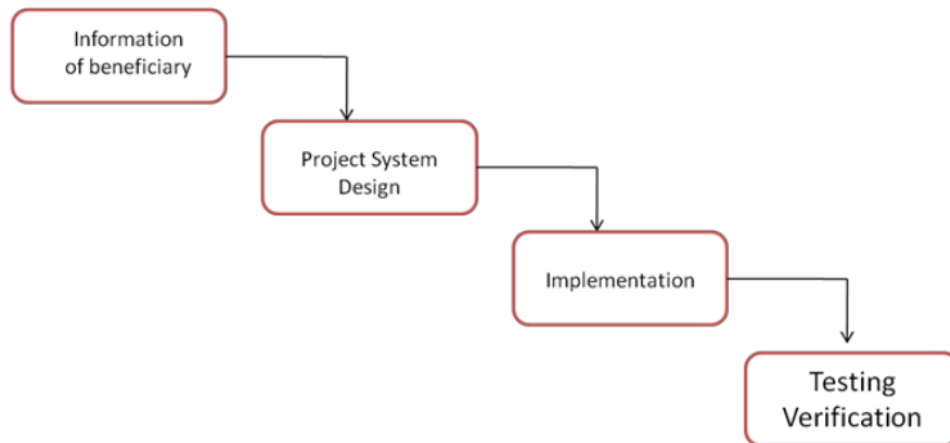


Figure 2. Waterfall Model

Information of Beneficiary

The proponent asks respondents a series of questions about the enrolment system they are currently using. The proponent also inquired about the process used throughout the student transaction. Every question that was answered by

respondents is listed so that the need to develop the system and its needs can be analysed.

Project System Design

Based on the information acquired from the teacher, the proponent suggested a system prototype to the school. The information received is used to create the system's layout.

Implementation

The proponent evaluates the functionality of the system before releasing it to the recipient because it is based on the problem they mentioned. In order to meet the teacher's pleasure and expectations, the proponent had to ensure that the system was fully functioning and operational. Everywhere there were some system adjustments, testing was done.

Testing and Verification

Before releasing the system to the beneficiary, the researcher tests the system's functionality based on the problem they mentioned. In order to meet the client's satisfaction and expectations, the researcher had to ensure that the system was fully functional and working. Every time the system was adjusted, testing was performed.

Requirements Analysis

The proposed solution is to computerize their manual process and its use of a piece of computer software that will allow authorized users to keep and save

the students information including grades and list of enrolled. Users will be able to utilize the program to search,save, edit,delete,update and get the necessary information such as enrollment summary report and grades.

The following aims and objectives must be achieved before software design and development is complete:

- To make updating a student's record as easy as possible for the teacher in charge.
- Fasten enrollment process at all points throughout the academic year.
- Establishing a database for student records, teachers and subjects that will make it simple for admin to update data.
- Establishing a database for students' grades that will make it easy for the admin to send it to parents.

Population, Sample Size and Sampling Techniques

The respondents included in the study are the selected teachers of Abuyon National High School.

Description of Respondents

The respondents of our study are the selected teachers in Abuyon National High School located at Brgy. Abuyon San Narciso Quezon. High school was divided into junior and senior levels. Several strands are offered in senior high school, including Humanities and Social Sciences, Technical and Vocational

Livelihood General Academic Strand. They are the ones who have enough knowledge to answer the problems posed in our study.

Research Instrument

The proponent uses the primary data tool which is the interview with the beneficiary through chat and call, researchers ask questions to obtain the insights of the problem under the study.

Data Gathering Procedures

The proponent gathered important data for the construction of the Students Enrollment and Grading System using various instruments, the interview and research. In order to obtain relevant information for the study, the proponents performed an interview with one of the teachers in Abuyon National High School. The proponent constructed a question for the interview to identify the problems and difficulty encountered by the teachers with the manual process of enrolment. The proponent used open-ended questions to collect information in order to fulfill the demand for complete answers.

Statistical Treatment of Data

Statistical treatment is dependent on the study's environment; the proponent used various statistical tools in analyzing the gathered data. It is also a tool for assisting the proponent in defining the unbiased.

System Requirements

Hardware

- I3 INTEL PROCESSOR
- AMD RYZEN 3 PROCESSOR

- 8GB OF RAM
- 20 GB OF HARD DISK DRIVE

Software

- Windows 10 operating system
- XAMPP.

Peopleware

Admin-The system's administrator is the school's personnel, as well as the Teacher the administrator is in charge of modifying the enrollment. In addition, the administrator has access to all data, including the total users, students, and users with accounts who are registered in the system. The administrator is also responsible for updating certain system records and sending grades to the parents.

Teacher - The Teacher is in charge of modifying the subjects and grades of the students by grading period and they can only access the assigned task to them.

Network

Student Enrollment and Grading System with Multiple Notification is a Desktop based application for centralizing the data of students on a server

Dataware

The teachers' and students' information will be saved in a MySQL database, which will be used as the mainframe to handle system-related report processing.

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Appendices

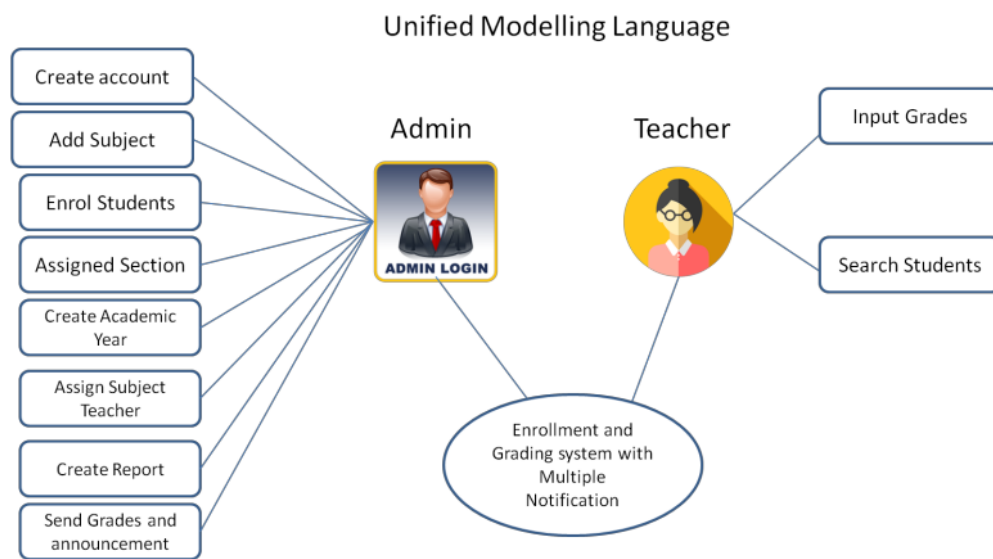


Figure 3. Unified Modelling Language

11 Entity Relationship Diagram

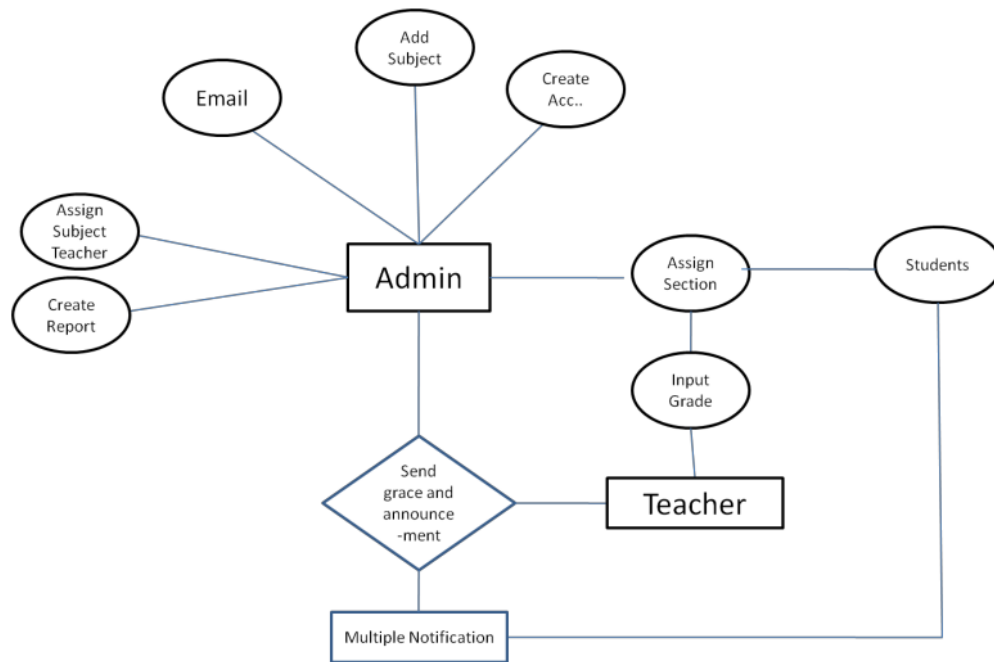


Figure 4. Entity Relationship Diagram

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