**REGISTRAR JOURNAL WEBSITE OF EULOGIO “AMANG” RODRIGUES INSTITUTE OF SCIENCE AND TECHNOLOGY**

A Thesis

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**CHAPTER 1**

**The Problem and its Background**

**Introduction**

Today, computers and the Internet, has become an important element in the life of people around the world. Institution is one that must be prior to have this way of computerization.

The young generations use those technological advances at incredibly faster and more successful rate than the previous generations. One of the main reasons is that they were born in the present.

The problem is public schools are still using the old, manual way it takes days, weeks or even months to finish. With the help of Internet and cheaper computers, the Researchers developed a website.

In this website a registrar journal website is designed and developed using Mern Stack Architecture. It allows the end user to add, edit, delete, save and update records.

Registrar journal website is a website that improves these processes that website has features that very useful to the admin. The first function is calendar. Calendar will be using as a reference to the date and day that user's going to set. The user can view the current date and month or the previous and next month calendar. Second is the appointment where the student will request the documents they will need and the admin will provide a schedule when they will return their requested documents, but it can still be changed depending on who will make the document.

The registrar journal website provides the accessibility for admin to use it in simplest way to determine their data. Work with saving time and human resource efforts, and provides the data accuracy and better quality.

The most effective point for this website has a flexibility which is very important for the registrar. That uses very common interface and user friendly programs.

In addition, the system is so easy to understand, the registrar can upload files(less papers, less space).

**Theoretical Framework**

This study is supported by the theory of Edwin Locke in 1960’s, Edwin Locke put forward the Goal-setting theory of motivation. This theory states that goal setting is essentially linked to task performance. It states that specific and challenging goals along with appropriate feedback contribute to higher and better task performance.

Goal setting involves the development of an action plan designed in order to motivate and guide a person or group toward a goal. Goals are more deliberate than desires and momentary intentions.

Therefore, setting goals means that a person has committed thought, emotion, and behavior towards attaining the goal

**The Conceptual Framework**

The Researcher wants to create a website that can be used by the school registrar to make the transaction easier for the students information and their data.

**Frame 1,** This website shows that it will be easier to retrieve student data to school by checking it on the system and it’s very helpful to any students or even the faculty or admin to access the data of the students in EARIST Cavite Campus.

**Research Paradigm**

**INPUT PROCESS OUTPUT**

**REGISTRAR JOURNAL WEBSITE**

1.Data Gathering

-Student Information

-Observation

2.Presentation Interpretation and Analysis of Data

-Frequency

-Compile of Codes

-Process

-Design

1.Profile of respondents in terms of:

1.1 Age;

1.2 Gender;

1.3 Course/Year

1.4 Expertise

2. How to collect data of students in all level:

2.1 Documents;

**FEEDBACK**

**Research Paradigm. Shows the Input – Process – Output**

**Statement of the Problem:**

This study aims to develop a website-based on the Registrar, students and faculty members in EARIST Cavite Campus.

Specifically, it will answer the following questions:

1. What is the users of the website:
   1. Student;
   2. Registrar;
2. What kind of data that can give to the users;
   1. Request Forms
   2. Appointment
   3. Task
   4. Goal
   5. News
   6. Frequently Asked Question

**Hypothesis**

As conducting a study entitled ― Registrar Journal Website, this group research on the following assumptions regarding the current website on how people dealing with their task.

First, most of the people are currently using those websites to help their self-fulfilling their task and what they want to do or to be done.

Second, majority of the office staffs are already encounter this kind of website which helps them to do their task.

Third, most of the people had already chosen this kind of website just to make sure that their goals are fulfilled by using this.

Lastly, most of the respondents have a website that can help and usable to do.

**Scope and Limitations**

The system will focus on how to help registrar to managing their workload in order and to arrange their time, meanwhile it supports user to finish their work on-time. It reduces workload, processing time and manpower requirement. The researchers cover alumni,graduate and under-graduate.

This developed system has some limitation attached to it in the following list.

This website needs internet & computer both Software & Hardware parts which are supporting the registrar journal website to run on the computer without any obstacles.

1. Hardware minimum requirements

CPU: Intel quad core

Ram: 4 GB

1. Software requirements

Server: Node JS , Express JS

Database: Mongo Database

**Significance of the Study**

**Office Staffs** This will serve as their tool to help them to navigate through their Goals and help them clarify the goals that they want to achieve.

**Students/Client** This will serve as their efficient way to do on what documents they want to get in school by requesting and avoiding the process to take a documents in school.

**Future Researchers** This study will surely help and serve as a reference for the future studies. And lastly, this system will provide adequate information about the former students.

**Definition of Terms**

**Appointment** - obtaining the document at the said place,time, and date.

**Calendar -**  a chart or series of pages showing the days, weeks, and months of particular year, or giving particular seasonal information.

**Data** - is defined as facts or figures, or information that's stored in or used by a computer

**Database**- A database is a data structure that stores organized information which includes several different fields.

**End User** - An end user is the person that a software program or hardware device is designed for. The term is based on the idea that the "end goal" of a software or hardware product is to be useful to the consumer.

**Goal -** an idea of the future or desired result that a person or a group of people envision, plan and commit to achieve.

**Hardware** - Quite simply, computer hardware is the physical components that a computer system requires to function.

**Journal -** Reconciling accounts and transferring information to other accounting records is done using the information recorded in journal.

**Mern Stack** - mongoDB, express, react, node, after the four key technologies that make up the stack.

**Registrar -**  an officer of an educational institution responsible for registering students, keeping academic records, and corresponding with applicants and evaluating their credentials.

**Request** - the act or an instance of asking for something.

**Request Form** - the act or an instance of requesting, especially in the form of a written statement.

**Schedule -**  the act of planning our activities so that you can achieve your goals and priorities in the time you have available.

**System** - a regularly interacting or independent group of items forming a unified whole a number of system.

**Task**- a piece of work done as part of one’s duties.

**Website** is a collection of publicly accessible, interlinked Web pages that share a single domain name to serve a variety of purposes.

**CHAPTER 2**

**Review of Related Literature and Studies**

**2.1 Local Literature**

Registrar Journal Website is an approach which widely being used in most organization especially in the educational, dreams to achieve, and for everyday life to track and to keep record of the person once they have done in their task. Through Registrar Journal Website, this will able to evaluate the task of a person that willing to pursue their dreams or goals and also the things to do in educational to help a student dealing with it. Bullet journal fanatic, Alice dives into why Ryder Carroll’s new book The Bullet Journal Method helps to formalize, build-on and perfect the bullet journal process. She discusses who she recommends it for, why read it and how to get started with Bullet Journal concepts in her detailed book review.

Bullet journal is helpful in a few different ways. Like to figure out what information want to put in, as well as how everything is going to be laid out, spaced, and designed so that it looks nice. A bullet journal is a composition that aims to simplify your personal task and plan organization with the use of bullets. These identifiers are small symbols such as a solid circle, hyphen, or tiny diamond shapes which are written before an item in a list.

Enrollment System is useful especially when the school retrieves the important information from the student the school can trace what is the the standing of the students. lack of enrollment system in a school can lead to chaos and troubles. students will be confused on what they should do to be able to enroll. it is extremely useful in the school in the way of working processes of enrolling become much easy.

**2.1 Foreign Literature**

According to the book about The Bullet Journal Method by Ryder Carroll (2015) A New York-based designer who combined several aspects to create what is now known as a highly efficient planner system that helps individuals to plan, monitor and recollect their history, and stay sane in the present. Bullet diaries, according to Carroll, may “assist someone in tracking the past, organizing the present, and planning for the future.

They may use a registrar journal website to create objectives and jot down the things they should complete on a daily, weekly, monthly, and even yearly basis.

**2.2 Local Literature**

Registration System is useful especially when the school retrieves the important information from the student the school can trace what is the the standing of the students. lack of Registration system in a school can lead to chaos and troubles. students will be confused on what they should do to be able to register. it is extremely useful in the school in the way of working processes of registering become much easy.

**2.2 Foreign Literature**

According to Stephen McHenry, (2011) An Registration system is basically included in one of the classification of information system that is stated by the author, thus it serves as a tool to support information management with regards to the student data, Registration fees information and other with a connection to the enrollment process. Every school gain competitive advantage of having this system for they will have the capacity of handling important information at ease and with security. The iterative implementation approach is a theory that eliminates problems of using a waterfall study. This is invented to avoid a linear and sequential development of study. The overall functionality of the system is broken down into feature sets. These features sets often based upon use cases from the analysis stage, containing group of individual features that are related, typically by a functional area.

**2.3 Local Literature**

According to the thesis documents made by Ibay, Villegas, Madisa, Clemenandabenes (2014) applying the automation of the enrollment system of a school will significantly help the staffs and management in organizing the information of the students this system will help the officials to look for certain information in just a matter of few clicks without having to look for it under a drawer with piles of papers In an educational institution, a smooth flowing method of data recording is essential

**2.3 Foreign Literature**

As said by Dunn and Scott (2015), science and technology is the root of emerging innovations in this world. For many years now, a person in this field of expertise does not stop to reshape the landscape of today’s business world. Enrollment system has made huge impact into the school arena. It is a system that is built on innovative program strategies. It is a system that will help both the enrollment personnel-in-charge and the students to easily process the enrollment at a lesser time. Distinct from traditional enrollment, LAN enrollment system process large assortment of student records and provides efficient and consistent information services.

**2.4 Local Literature**

An online enrolment system was proposed to replace the manual Enrolment system covers, such as updating bang adding student records,Generating the advising and assessment slips, and the like considering the Manual operating system to be inefficient for the need of the institution. Since the Study involves proper record handling , tracing the constraints andevaluation of The manual system essential (Bacala and Reano,2009)In education institutions like Harvent School in Dagupan city. Composed Of elementary and high school level. The school puts premium to its registration The enrollment process is the initial stage in gathering bon fide and accurate Student information necessary to establish student permanent record. A Registration and billing system is needed by the institution to address the stated

**2.4 Foreign Literature**

According to Forman (2017) Web-based enrollment system is currently emerging on markets for they are offering transaction convenience and service efficiency through the use of Internet. This system becomes a powerful tool in dealing with information management regarding enrollment transactions. Continuing innovation in technologies can lead to organizational changes that range from improvement of day to day operation and for easy access it provides for the end users. Many schools today have adapted this innovation in offering of their services which is parallel with the concept of Tinn (2011), stated that the computerization responded to the call the office or any workplace to help their daily operation. Malolos et.al (2012) stated that the study of automation is important in the sense time it minimizes the time and effort normally exerted in manual process. While Janes (2011) stated that computers are extremely reliable device and very powerful calculators with some great accessories applications like word processing problem for all of business activities, regardless of size, computers have three advantages over other type of office equipment that process information because computer are faster, more accurate more economical. Reyes (2015) task would be time consuming to accomplish manually and more practical with the aid of computers field in cabinet.

**2.5 Local Literature**

A new automated enrollment system was proposed and passed by the administration just recently. according to the chairperson of the department of information technology and systems this enrollment system will push through on the 1st semester of AY 2009-2010

according to source the enrollment system will automatically get the student’s subject/section for

hassle-free enrollment this is for student without any pending back subject while for students with pending back subject, they still need to meet their department chairs/coordinator first for the advising of subjects before using the enrollment system.

**2.5 Foreign Literature**

According to Jennifer Rowley (2005). information system are a tool to support information management.information systems are increasingly being used in organizations with the objective of providing competitive advantage.the information system used by organization scan be grouped into different types such as transaction processing system management information system decision support system executive information system expert systems and office information system information technology has heralded the advent of the information society.the information society may be a virtual society.the concepts of the electronic classroom the electronic office and electronic library have been explored.information system poses a number of issues on society in general including changing employment patterns archiving and bibliographic control security and data protection intellectual property marketplace issues and access.

**2.1 Local studies**

According to Aquino (2011) importance of computer website is increasing day by day. In a latest decades of Millennium winning organization are those which are willing to integrate business strategy and computer information technology in plying their respective trades. The use of computer information technology results for them to be able to develop products fast and make decisions fast, ability to have fluid organization structures, able to cope with demanding work force and external environment by the rapid development of innovative approach and lastly using information systems confirms the institution mission vision.

School use information system in the way of implementing an enrollment system. This results for them to attract enrollee and earn an income. Enrollees are attracted because the use of the said system makes the transaction faster and easier

“Lack of enrollment system in school can lead to chaos and trouble” As Stated by Ace Adrian (2011). Students will be confused on what they should do to be able to enroll that is why such system is extremely useful in retrieving vital information of the students. Without it can lead difficulty both for the administration of school and students in enrollment process.

Many countries nowadays, especially the developing nations are challenged by the rapid technological changes. This has radically changed the living and working styles of the entire society. This transformation has been driven partly by rapid technological innovations. While in the 20th century saw the rise of the industrial revolution with steam-powered machines intensifying and expanding human productive power, the 21st century was characterized by the birth of machine-powered flight and the emergence of broadcasting and computer technologies the extend the reach of human creativity even more and made possible new ways by which human could live and work together (Tinio, 2010).

**2.1 Foreign studies**

In Registrar Journal Website , the length and the topic of what are going to write are solely under your discretion. Aside from that, it is a very effective method where they will be able to express whatever thoughts that are running inside their head and additionally, your freedom to write whatever it is write are limitless. They can basically write anything on their journal aside from the usual recording of what happened in the whole day, and this may include your to-do lists, hopes, dreams, secrets, failures, love, loss, and anything and everything your roller coaster of life could offer.

Registrar Journal Website or also known as “BuJo” is an aggregate of almost all of your task-organizing writings like planner, diary, and calendar. Furthermore, the time frame covered by this journal extends from daily to yearlong tasks. Though there are already existing notes and to-do list apps available on the internet, some still prefer to make their Registrar Website Journal the pen and paper way. If they are fascinated with this conventional method of Registrar Journal Website writing and want to generate a fantastic record of your own right now, remain composed.

**2.2 Local Studies**

The NNN-AMIC special report of lara P. Lina (2012) revealed that the Philippine is experiencing 75% mobile penetration. One-fifth on its population can also be found online. That means more than 24 million Filipinos are able log into their Facebook, twitter, Friendster, and instagram account regularly. The Filipino’s familiarity and mastery over the English language could be the reason behind Philippine online popularity.

**2.2 Foreign Studies**

According to Hackley (2016) technologies distance learning is becoming increasingly important to business curricula. However, little theoretical development or empirical research has examined teaching effectiveness in distance learning. Thus, this article draws from research in management communications, education, and information systems to develop an initial conceptualization of influences on technology-mediated distance learning outcomes. It then reports on an exploratory study utilizing both qualitative and quantitative techniques to examine 247 students’ reactions to such distance learning

**2.3 Local Studies**

The most rapidly growing internet activity is the World Wide Web or “WWW” for short. Tim Berners-Lee (2014), a software engineer and programmer, invented the “WWW” or simply the web in 1989. Since then, its phenomenal growth has been astounding. Turoff (2000) is given credit for designing the first computer conferencing system in 1970. Today there are many conferencing systems available that support not only the discussion feature but also other more sophisticated features including personal messaging and audio and video capability. Computer conferencing systems, however, were applied to activity in higher education in 1980s and remain prominent feature of online education today.

**2.3 Foreign Studies**

According to Niehaves, B. & Plattfaut, R. Eur J Inf Syst (2014) is that Information technology (IT) has significantly changed the way we live and work.For instance, Internet-based and electronic business has complemented and sometimes even superseded traditional offline channels. Online channels offer distinct value (e.g., constant availability) and, due to their cost structure, are often less expensive than store-bound distributions. As a result, companies often establish online channels as ‘privileged channels’ to support their objectives of cost-cutting and service optimization. An example of a privileged channel is the online check-in with airlines that is currently strongly incentive over the conventional counter check-in.

**2.4 Local Studies**

John Ireland (2014) mentioned that with advances in technology, student study habits have dramatically changed. Technology has affected the way teachers presents information; slaving over books in the library and scribbling down notes on paper.  
The internet allows students to access virtually all in information that is publicly available from the comfort of their homes. They do not need to travel or even to go to a library. Books are scanned in to the internet, museums have work available online, and college library sites offer online access to academic journals. The role of professors has slowly changed; they are no longer the dispensers of information but instead facilitate learning by providing guidelines and recommended resources.

**2.4 Foreign Studies**

According to Ella (2012), the ideas and concept where the students will check their schedule, view subjects and teachers and set desired changes and pay online. While Gaton (2012), the system allows students to choose courses they want to take with the available class schedules. This allows students to make up their time schedules for different class courses without time schedule conflicts. After the allotted enrollment period, the system runs and assigns slots to students. Both concept and ideas does not cover the researchers system in terms of online payments or computation of student’s grades, class scheduling, and assessment of fees.

**2.5 Local Studies**

Chris Rowling (2013) concluded that, many have claimed the computer is the single greatest invention of the last century, and there are now more and more computers making it in to the classroom. This is of great importance to children as they are very few jobs left anymore where a computer is not well as other classes where computer programs are used as an alternative to standard teaching. The presence of computers in classrooms has not only given children the chance to learn how to operate computers nut has also allowed for a major change in the way educators teach students.

**2.5 Foreign Studies**

As said by Adrian(2011), “Lack of enrollment system in schools can lead to chaos and troubles.” Students will be confused on what they should do to be able to enroll that is why such systems is extremely useful in the way that it gives an ease on working on enrollment processes. Enrollment is very useful in retrieving vital information of the students. Without it can lead difficulty both for the administration of school and student in enrollment processes Many countries today, especially the developing nations are challenged by the rapid technological changes. This has radically changed the living and working styles of the entire society. This transformation has been driven partly by rapid technological innovation. While in the 20th century, people saw the rise of the industrial revolution with steam-powered machines intensifying and expanding human productive power, the 21st century was characterized by the birth of machine-powered flight and the emergence of broadcasting and computer technologies that extend the reach of human creativity even more and made new ways possible by which humans could live and work together (Tinio, 2002).

**Synthesis**

The Researchers will make a system that will help the person to achieve every goal they have and then motivate them do it because of the idea of partition it will motivate them to do small things but knowing that these small things will stack up and eventually affect your goal and slowly achieve the goal another concept of this is to organize the goal and make the time organize It also makes it easier for folks to take notes more quickly while having everything in one location. There will be no more post-it notes, plans, digital chores, or Ever notes — everything will be contained in a single bullet Apart from the traditional recording of what happened during the day, they can write anything in their notebook, including to-do lists, goals,aspirations, secrets, failures, love, loss, and whatever else your roller coaster of life has to offer.

Registrar Journal Website will helps the admin and also the student to make every process easier in requesting the documents required by the students

**CHAPTER 3**

**METHODOLOGY**

**Research Design**

Quantitative research approach is a research based on traditional scientific methods, which generate numerical data and usually seeks to establish casual relationship between two or more variables, using statistical method to test the strength and significance of the relationships. Quantitative research using methods allowing for the measurements of variables within a collection of people or groups and resulting in numerical data subjected to statistical analysis. It is the analysis of certain objects by means of numeric representations and statistical analysis. The main goal of this research is to measure, define and make a report on the correlation of certain elements. Quantitative research is usually conducted by means of collecting statistical data in the form of service, questionnaires, and interviews which are designed to determined opinion of the people of certain trends in the society. Quantitative research in education is very effective because its results are- derived by discovery exact facts and, therefore, the same research method and the results are generalized. (Hara, 1995)

The researchers opted to use quantitative approach to collect data of Registrar Journal Website of EARIST Cavite Campus, the approach will also use a format instrument that is much easier to generalize. Quantitative research provides generalize data on the objects that are being analyzed, thus, the information is not so detailed on behavior and attitudes of the subject matters. The researchers will make use of descriptive research design and are integrated in the questionnaires because this research involves collecting of data in order to test the hypothesis or answer questions concerning the currents status of respondents. It also determined and reports the ways things are.

**Population and sampling**

The researchers applied the simple random sampling that is designed for the researchers to gather information about the present existing condition needed in the field of study because it is the easiest method sampling.

Simple random sampling method takes a small, random portion of the entire population to represent the entire data set, where each member has an equal probability of being chosen. Researchers can create a simple random sampling using methods like lotteries or random draws.

**Respondents of the study**

The Researcher focuses on the 3rd & 4th year students of Information Technology and Registrar staff of EARIST Cavite Campus And IT expert .The Reason why the Researcher chose them because they will know how efficient the registrar on maintaining accurate and confidential records relating to their academic performance and how their records will be scheduled to get so that it will be efficient.

* IT Expert
* Students (Computer Science, Information Technology)
* Registrar Staff

**Research Instrument**

The researchers will make use of survey questionnaires as the data-gathering tool for this study. Questionnaires will be distributed to BSITIII and Registrar Staff of EARIST Cavite Campus. Google form will be the tool of the researcher to collect the data. The researcher will request a Google meet and give the link to the Google form the researcher also gave them enough time to think through it so it will have a accurate answer, this instrument Questions will be based on the study statement of the problem so that all of the question will have an accurate answer to it, the Questionnaire included an Personal information to fit the profile of the respondents and also to be accurate to the target of the study so that the study will have a great outcome.

**Data Gathering Procedures**

This Chapter presents some techniques for data gathering which are commonly used in interaction design activities. In particular data gathering is a central part of establishing requirements and evaluation. Within the requirements activity, the purpose of data gathering is to collect sufficient, accurate and relevant data so that a set of stable requirements can be produced within evaluation, data gathering is needed in order to capture user reactions and performance with a system or prototype

In this Chapter introduce three main techniques in gathering data: Interviews, questioners, and observation. In the next chapter discussing how to analyze and interpret the data collected. Interviews involve an interviewer asking one or more interviews as a set of question, which maybe highly structured or unstructured: interviews are usually synchronous and are often to face to face, but they don’t have to be. Questioners are a series of question designed to be answer asynchronous with the presence of panelist these maybe on a paper or online. Observation may be direct to indirect. Direct observation involves spending time with individual observing activity as it happens to be studied at a later date. All three techniques may be used to collect qualitative or quantitative data.

Once a person has identified your data sources, this person need to develop protocols for how will use each of them to collect data. For interviews, this will include the type of interview, questions, and an interview guide similar approaches can be used for examination of artifacts. An Observation requires specifying the structure of the tasks that will be performed and the questions that will be asked. Each data source, in effect, becomes a mini-experiment within the larger case study, all tied to the common goals of the study as a whole.

**Statistical Treatment of Data**

Once the data is gathered the following will be applied

1. **Frequency Distribution** – The Data will be presented in a table to know the value of the application in terms of achieving goal
2. **Ranking –** This was used to determine in where the students struggle in a achieving a goal. And this will also determine what mobile platform does a student have the most. To have the ranking compute the weighted mean in a decreasing order of magnitude with rank 1 with the highest weighted mean.

**3. Mean –** was applied to calculate the average of the model data using the following formula

/ Where: