**A WEB BASED MANAGEMENT INFORMATION SYSTEM**

**WITH ANDROID APPLICATION**

**FOR SAN MATEO SENIOR HIGH SCHOOL**

**A Capstone Project**

**Presented to the Faculty of the**

**College of Computer Studies**

**Our Lady of Fatima University**

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**Chapter 1**

**INTRODUCTION**

* 1. **Background of the Study**

One of the primary concerns of the registrar’ office is to monitor the records of students from time to time and every semester. As time goes by, the office struggles with the monitoring and tracking of records since every year the population of the school gets bigger and bigger. It is hard for the registrar’s personnel to monitor the record since the school doesn’t have the system to do it. It includes the name of the student, history of students’ previous school, and their status or standing in the school. The personnel also encounter a hard time of generating a lot of details for their report.

The proponents would like to create a system that will enable the faculty of the school to track the students' records. The proposed system is entitled “Students’ Information System” for San Mateo Senior High School. San Mateo Senior High School is the biggest public senior high school located in San Mateo, Rizal It offers different tracks such as the academic and technological vocational and livelihood. The school has more than a thousand students wherein the teacher-in- charge in the registrar’s office finds difficulty in tracking and monitoring the students’ record at once. In this line, the registrar’s office and all advisers need to track and monitor the student’s records to their respective sections/strands

* 1. **Objectives of the Study**

The researchers conducted a statement that addresses the problems and objectives about the study.

*1.2.1 General Problem*

The school’s registrar’s office and teachers monitor the records of students from time to time and every semester.

*1.2.2 Specific Problem*

The researchers conducted an interview with the school principal and requested to state the specific problem they encounter within the senior high school.

* Monitoring the population of students entering the school and their previous school records.
* The registrar’s office tracking the records of a student.
* Teachers fetch the records from school to home just to record.
* Students get their modules and activities to school and even their report cards.

*1.2.3 General Objective*

The general objective of this study is to enhance the fetching of records and monitoring student’s performance in the school with the use of management information systems.

*1.2.4 Specific Objective*

* To provide an operative and labor-saving recording of student’s performances.
* To let the students notify about their inputs of grades and rankings
* To provide computerized access to the important records in terms of academic management for report cards.
* To provide a system that will help the school to have only one main tool that can be used for managing the academic performances, inputs and records of a student

**1.3 Scope and Limitation of the Study**

Scope and limitations contain what information or subject is being analyzed and the explanation why other subject points were excluded.

**Scope of the Study**

* This study focuses on inputting, getting and monitoring the records of students by the teachers in the Senior High School.
* This study will provide the students viewing their grades as well as printing them and notifying if they are in the honor list.
* This study can provide assistance to the teachers to upload modules, activities and even the events in school and then students viewing, downloading and getting notifications.
* This study also provides the creation of reports processing in the senior high school.

**Limitations of the Study**

* This study is dedicated only to San Mateo Senior High School.
* This study does not include the documents needed from the DepEd.
* This study does not include the registration of the students.
* This study will not be responsible for any unsaved data when having technical issues.
  1. **Significance of the Study**

The significance of the study aims to provide a stress-free and manageable way of recording and collecting student information that will help San Mateo SHS to improve much more in their work.

**The School.** The Web and Android Based management information system will improve the way of recording and collecting the information of students in terms of lessening work time, the number and work of students will be monitored as well that can help the school in providing effective solutions when gaining more students entering the school and students works.

**Teachers.** It will help them to organize and maintain the student information. To avoid missing documents of the student records.

**Students.** Who can use this research as their guide in their upcoming research to let them add more features or upgrades in the existing system and use it in the next generation.

**Researchers.** This study can help the researchers to fulfill the tasks of developing a system or program that will help the teachers with getting done with their work and students with their modules in the most convenient way and to have this study reviewed for future reference.

**Future Researchers.** This study would help the future researchers to be aware and knowledgeable of the process in…. It would help them to be a better analyst and it can be used as a future reference for more studies in the future. This study can serve as their guide in reaching their goals.

**Operational Definition of Terms**

***Management Information System*** it's an easy and quick way for teachers and students to save the documents they need to print and publish and make them available on the web. This system collects data from multiple online systems, analyzes the information, reports the data, and helps management make decisions.

***MySQL*** is a relational database management system that is free and open-source (RDBMS). "My" is the name of co-founder Michael Widenius's daughter, and "SQL" is the abbreviation for Structured Query Language. A relational database organizes data into one or more data tables where data types can be associated to one another, allowing the data to be structured.

***V-Model*** It is an example of the broader V-model and shows a development process that can be considered an extension of the waterfall paradigm. After the coding phase, the process steps are twisted upwards to form the traditional V shape, rather than continuing down in a linear manner.

***Agile Methodology*** Adaptive planning, evolutionary development, early delivery, continual improvement, and flexible responses to changes in requirements, capacity, and understanding of the problems to be solved are among the practices that include requirements discovery and solution improvement through the collaborative effort of self-organizing and cross-functional teams with their customers or user(s), adaptive planning, evolutionary development, early delivery, continual improvement, and flexible responses to changes in requirements, capacity, and understanding of the problems to be solved.

**CONCEPTUAL FRAMEWORK**

This chapter contains the conceptual framework diagram of the study and some of the related literature, local and foreign where this defines the relationship of the proposed study with the existing study.

The conceptual framework of the study displays the input – process – output of the system. The input shows the knowledge and software requirements needed for the development of the system, the process shows the models or methods used in transforming the inputs into outputs.

**INPUT**

**PROCESS**

**OUTPUT**

**Knowledge Requirements:**

Records

Viewing

Input and Output of Data

Releasing of Records

Achievements

School Forms

**Software Requirements:**

a. Microsoft Windows 10 OS

b. Python

c. XAMPP

d. MySQL Server

**Hardware Requirements:**

a. Processor: Intel i3 and above

b. Minimum of 2GB RAM

C. Must be at least 25GB HDD

**System Planning:**

a. Data Gathering

- Interview

-Survey Questionnaire

**SDLC Agile Method**

1. Requirements

2. Design

3. Development

4. Testing

5. Deployment

6. Review

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Feedback

***Figure 1.*** Conceptual Framework of the System

This figure above consists of knowledge, software, and hardware requirements needed to be able to develop a system. Also, it includes the software development life cycle which will serve as a guide to have a convenient and quality system.