



Tuguegarao City Science High School Website with  
Student Portal

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Of the School of Information Technology and Engineering  
St. Paul University Philippines

Tuguegarao City, Cagayan

In Partial Fulfillment  
Of the Requirement for the Degree  
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

By:

Joel John D.G. Centeno

Juan Miguel Rafael P. Ibañez

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## **Table of Contents**

<b>Title</b>	<b>PAGE</b>
Title . . . . .	.I
Approval sheet . . . . .	II
Acknowledgement . . . . .	.III
Dedication . . . . .	IV
Abstract . . . . .	V
Table of Contents . . . . .	.VI
 <b>CHAPTER 1 THE PROBLEM AND REVIEW OF RELATED LITERATURE</b>	
Introduction . . . . .	10
Review of Related Literature . . . . .	13
Synthesis . . . . .	.31
Conceptual Framework . . . . .	32
Paradigm of the study. . . . .	33
Statement of the Problem . . . . .	36



Scope and Limitation . . . . .	37
Significance of the Study . . . . .	38
Definition of Terms . . . . .	40
<b>Chapter 2 METHODOLOGY</b>	
Research Design . . . . .	41
Input Process Output . . . . .	42
Data Flow Diagram . . . . .	44
Entity Relationship Diagram . . . . .	46
Participants of the Study . . . . .	51
Instrumentation . . . . .	52
Data Gathering Procedure . . . . .	54
<b>Chapter 3</b>	
RESULTS AND DISCUSSION . . . . .	55
Capstone Project Design and Methodology . . . . .	57
Description of the Present System . . . . .	58
Description of the Proposed System . . . . .	60
GANTT CHART . . . . .	62



Network Architecture . . . . .	63
Hardware and Software Requirements . . . . .	65
Hierarchical Input Process Output . . . . .	67
Results and discussion . . . . .	69
Physical Design . . . . .	83
<b>Chapter 4 SUMMARY OF FINDINGS, CONCLUSION AND RECOMMENDATION</b>	
Summary of Findings . . . . .	93
CONCLUSIONS . . . . .	94
RECOMMENDATIONS . . . . .	95
Appendices . . . . .	100
Source Code . . . . .	111
REFERENCES . . . . .	204
Curriculum Vitae . . . . .	206



**APPROVAL SHEET**

In partial fulfillment of the requirements for the degree BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY, the thesis entitled, "Tuguegarao City Science High School Website with Student Portal", has been prepared and submitted by Juan Miguel Rafael Ibañez and Joel John D.G. Centeno, who are hereby recommended for Oral Examination.

MR. RUCELJ D. PUGEDA, MIT  
Adviser

MR. ALLAN PEEJAY M LAPPAY, PH.D  
Language Editor

Approved by the Tribunal of Oral Examination with a grade of PASSED.

PANEL OF EXAMINEES

DR. MARIFEL GRACE C. KUKMER, DIT  
Chairperson

MR. CARLOS L. BABARAN JR., MIT  
Member

MS. SHEENA G. GUMARANG, MIT  
Member

Accepted and approved in partial fulfillment of the requirements for the degree BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY.

MARIFEL GRACE CAPILI-KUMMER, DIT  
Dean, Site



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### **Dedication**

We dedicate this study to our family and friends whose words of encouragement and support led us to the fulfillment of our dreams.

To our teachers who have supported us throughout the process. We always appreciate all the things they have done, especially Sir Ernesto Peralta, for giving all his best towards the accomplishment of the study.

We dedicate this study to God for the grace to continue on with life. We offer our praise, gratitude and all.



### **Abstract**

Tuguegarao City Science High School (TCSHS) with the advent of information system technology is putting in an effort to introduce a Website with Student Portal System for use by students. Continued usage considered as a measure of success in information system implementation. The objective of this study is to propose an integrated system leading to investigate the factors that can motivate students to continue to utilize TCSHS website with student portal system. Two streams of research provide the bases for this integrated framework namely: Unified theory of acceptance and use of technology, and Self-Determination theory. A total sample of 20 students from the Tuguegarao City Science High School responded to questionnaires containing 6 constructs: Functionality of the developed system, efficiency of the developed system, usability of the developed system, maintainability of the developed system, portability of the developed system, and performance was employed as the main method of analysis. Results revealed that The extent compliance of the developed system to ISO 25010 software quality standards by the IT experts revealed that the among six (6) defined





attributes, the one that has the highest weighted mean is the "Efficiency" of the proposed system with an overall weighted mean of 3.90 which is characterized as "Great Extent". And the total overall weighted mean was 3.70 which is characterized also as "Great Extent".



## **Chapter 1**

### **THE PROBLEM AND REVIEW OF RELATED LITERATURE**

#### **Introduction**

Today, websites are the best way to publicize and disseminate information to the world. The Internet is a technology for organizations providing means to communicate with the public. It also has the only one characteristic without geographical boundary or time limit, everyone interacts through one-to-many or many-to-many networks meeting matches to do business and provide or request services they want. Web browsers, such as Firefox and Internet Explorer are the means to deliver the information on a webpage, the basic foundation of a website which has the basic structure (architecture) written in web Program. Nowadays, information age, the majorities of organizations have a website with their policy and their artifact and service information. It is perhaps the mainly economic and the most suitable way to disseminate information and data all over the world. Due to advancing strides and rapid changes, computer trends had surfaced. It becomes a vital fixture in school in which the mental capabilities of



students are being tested and their creative skills are developed using their modern technology which include the creation of web application.

Student Portal System is a portal website develop for colleges and institute which provides facility to their students and faculties for creating and maintaining their own web pages which can be viewed online by anyone who visits the website. Educational Institutions, with the advent of information system technology, is putting in an effort to introduce a student portal system for use by students. Continued usage considered as a measure of success in information system implementation. The objective of this study is to propose an integrated system that can motivate students to continue to utilize student portal system. Two streams of research provide the basis for this integrated framework namely Unified theory of acceptance and use of technology (UTAUT) and Self-Determination theory.

With all the aspirations and hopes, it is decided to design the Tuguegarao City Science High School website with student portal that could help the school to advertise its



curricular offerings and services beyond the borders of  
Cagayan.



## **Review of Related Literature and Studies**

Foreign:

According to H. Rjeib, Al-Najaf and N. Ali, et.al (2018). Faculty of Engineering University of Kufa. On their research entitled Attendance and Information System using RFID and Web-Based Application for Academic Sector states that the attendance of the students have been considered as one of the crucial elements or issues a student faces. It has a direct correlation with the academic performances of an individual.

The attendance of a person also reflects the academic achievements and the performance contributed to any university. The researchers stated that the traditional methods of attendance monitoring is barely time-consuming which also leads to inefficiency.

In relation to this study, the researchers can conclude that having an automated way of monitoring the attendance. Would greatly enhance the efficiency, reliability and functionalities of the current system which is the manual process of attendance monitoring.



According to S. Fatin and K. Hasan, et.al United International University Dhaka, Bangladesh (2018). On their research entitled Student Profile Management App. States that Student management system is an essential tool for any organization for it lessens the manual process of doing paper works.

Automation also establishes a better communication medium between teachers, students and organizations. The manual process of going through a filing cabinet and searching an item one by one is proven erroneous and would require tremendous work and energy.

The system has been developed with simple user interaction, efficient and less time consuming. This Application is useful for any organizations that are keen to utilize this kind of software.it can be operated very easily.

In relation with the study, the information that we have learned about this research would be a great reinforcement for us to build a system that would also eliminate the manual processes which leads to efficiency and accuracy in terms of record management and dissemination of information.



According to Suresh Limkar and Shubham Jain, et.al (2018). In their study entitled iBeacon-Based Smart Attendance Monitoring and Management System states that there are various technological ways of monitoring the attendance of an individual. But such problems may occur especially in terms of fake attendance which can jeopardize the current attendance monitoring system.

The proposed system works on Bluetooth low energy technology which can send signals that has a definite format. The system produces accurate result indoors even if there are radio waves influencing the signal.

The main advantage of the proposed system was to make attendance monitoring more convenient in terms of having less human intervention and follow the paperless attendance monitoring system.

Relevant to this study, it has been identified identified that there could be many problems or hindrances in developing a secure attendance monitoring system such as in our case (using a none-paperless attendance checking). The absent student can be checked if the checker is also a student. In order to counteract that certain situation



through applying certain parameters to enhance the security of the system.

According to J. Lim, E. Teh et.al (2017). Faculty of Computing and Information Technology Tunku Abdul Rahman University College, Setapak, Malaysia. On their research entitled Automated Classroom Monitoring with Connected Visioning System. States that the main concern of the educator is the student's behavior and performance in the class.

The smoothness of the classroom activities alongside with monitoring the student's attendance, attention and activities like entering or leaving the classroom must be ensured by the instructors. Manual observation on these could affect the teaching and learning process and causes the distraction from the main syllabus.

With the incorporation of IOT devices and computational algorithms such as computer vision techniques, machine learning and data analysis, it can ease the monitoring task and the analysis of students' performance in the class.





In relation to the proposed system in attendance monitoring the long term performance of the student can be recorded so that the data could be continuously assessed in the future.

According to O. Bukoye and A. Shegunshi (2016), on their research entitled Impact of engaging teaching model (ETM) on students' attendance. States that there are various reasons why students miss their classes. What is considerable amount of students regard ETM as a useful approach to increase students' attendance.

Through attending classes regularly brings an engaging and meaningful way of learning activities. This establishes connections between attendance and performance through inclusive nature of assessment guidance throughout which will motivate the students to attend lectures.

The ETM enhanced student attendance resulting in average attendance rate of 67 and 82% for UG and PG, respectively. The average result attained was between higher C and B range. These results indicate significant improvements in the way students engaged with the UG and PG units, their attendance and result attained.



In relation to this research regarding attendance monitoring providing a system that will monitor the attendance would let the students excel in their academic performances for attending classes regularly brings an engaging and meaningful way of learning activities which establishes connections between attendance and performance.

According to M .Ozerbas and B. Erdogan Faculty of Educational Science, et.al (2016). On their research entitled The Effect of the Digital Classroom on Academic Success and Online Technologies Self-Efficacy. States that the use of technology is important in order for the students to be more successful in both in and outside the classroom.

Online technologies self-efficacy could be seen important in order to raise academic success. Especially for those classrooms that are considered as digital classrooms promotes synchronous interactions and also asynchronous interactions.

The use of technology would greatly benefit the academic institutions in terms of providing the necessary information that would help the students to monitor their academic grades that can aid for a better decision making.



According to E. Custodio and M. B. Castro (2016). On their research entitled Advancing Pre-enrollment Procedure through Online Registration and Grade Evaluation System , States that, technological advancements had paved a way for the computers to not just only be having the capability to compute and perform mathematical calculations but also to process data and quickly disseminate information.

According to the researcher, Online processing is one of the advantages of the use of internet technology instead of having a manual process. We can revolutionize the things that we have already accustomed to and bring forth a more convenient way of processing data through automation.

In relation with the study, record keeping would also be uncomplicated through the automatic processes that a system would offer. Turning a manual process into an automated process will minimize inaccuracies and errors thus producing a much more efficient way of grade evaluation and record management

Local:



According to J. s. De leon and E. G. Galoso (2017). On their study entitled Faculty and student attendance monitoring system using biometric device. States that the researchers conducted a study and provided a system that will automate the traditional way of monitoring the attendance, generating reports and requirements.

The researchers gathered data through interviews with those people who are concerned and also by observing the traditional way of attendance monitoring. The traditional way of monitoring the attendance was proven to be time consuming and inaccurate.

The proposed system was able to handle a computerized database that would keep the attendance records which have led to the development of a more robust and a dynamic way of record management.

In the present study, the proposed system also has a functionality which automates the process of attendance monitoring. The previous study provided us an idea to integrate the database of our systems into one centralized system for us to also have a dynamic manner of record management.



According to Dayag-an and Hazel G. Llarena, et.al (2017). On their study Saint Paul University Philippines guidance office student profiling system states that the purpose of the study was to determine if there is a significant difference in terms of ease of use of use, reliability and functionality of the current system (which is a manual process) compared to the computerized student profiling system.

The system focused on the management of records of the guidance office in terms of student profiling. The researchers' system provided a comprehensible functionality to sort, update and tally the records of the students which paved the way for a faster way of record management.

In relation with the study, we will also be creating a computerized student profiling system which is integrated with our other systems. The previous study provided a reinforcement of ideas for us to let our beneficiaries consider the atomization of their current manual student profiling system.



The previous study served us with the information about how to build comprehensible functionality that will sort, update and tally the records of the student.

According to Jaime Miguel (2017). In his study entitled Student Profiling System states that the researchers proposed a system that will store students information which can be evaluated by the teacher and improve the productivity of the teacher in terms of providing the system with sufficient functionalities.

The system has led the users to have the ability to find and retrieve data instantly through the use of an automated profiling system. It provided information about the students necessarily needed to assess and monitor the students' development.

Along with this study, providing a student profiling system will greatly enhance the effectiveness of having a secured way of handling information about individuals which prevents from records being damaged in different kinds of exposure.

According to J. C. Cauilan and A. S. Tuzon, et.al (2016). On their study entitled Saint Paul University



Philippines graduate school grading and evaluation system states that on their study that aimed to improve the previous systems through their proposed system of grading and evaluation system. The researchers focused on developing a system which will be having a much more secured and reliable way of processing and evaluating the students.

The system is an online application that manages students' records such as grades and subjects and is able to print out records regarding grades and evaluation sheets. Through the automated process of evaluation provides the faculty staff to have a better and faster way of managing records.

Accordingly, enabling the system to be operated on the web will increase the efficiency and availability of the proposed system. Just like the previous study providing a automated system for the institution of the benefited school will also let the end-user to process a much more secured and reliable way of evaluating the students in terms of their academic standpoints.

According to M. Christian Tan (2016). In his study entitled Computerized Grading System states that he proposed



a system that will aid in computing the grades of the students of Claro M. Recto ICT High School in Pampangga. The researcher focused on enhancing record management and developing a system that will speed up the process of the traditional Grading system.

The respondents encountered a certain degree of difficulty using the current grading system which means that the respondents have agreed that creating an automated grading system would greatly increase the schools productivity and credibility in producing accurate and precise academic information.

In this study, it presented how the advancement of technology affects the school grading management. The grading system had greatly expanded the capabilities of the current manual grading system in terms of reliability and accuracy of the information that is going in and out of the system.

According to R S. Namocot Jr. and R. C. Nolasco, et.al (2016) on their research entitled Student Profiling system of Senior High School in DLSJBC states that the proposed system of this study provides a profiling and registration for every senior high school students.





It is a way for the institution to view the available courses to be enrolled, basic profile of each senior high school student or alumni and to monitor the population of senior high school students.

In relation with this study, we also aim for the development of a system in which it has the capabilities of providing a profile that can be viewed and assessed by the personnel in charge. Our goal is to invent a student profiling system that can be easily accessed through a centralized database and also to monitor the population of the institution.

According to C. L. Babaran Jr. (2015). In their research entitled Student Performance Monitoring and Evaluation System of Saint Paul University Philippines States that the researchers of this study proposed a system that will enhance the monitoring and evaluation capabilities of the current system of Saint Paul University Philippines. The researchers conducted a test which evaluated the current system of Saint Paul University Philippines and have found out that the current system has been evaluated as poor in terms of viewing of grades and passing of requirements.



The researchers conducted a pilot testing of the proposed system and proved that the proposed system was more efficient and can be facilitated better for after the pilot testing the survey have received a grade of very excellent. Thus it could produce more reliable and accurate information.

In relation with this study, the importance of having the convenience of viewing and assessing the grades of the students is very crucial in monitoring and evaluating the student. Having a better system that can monitor students' performance will lead to a better understanding of the student and for accomplishing a wiser decision making.

According to R. D. Pugeda (2015). In his research entitled E-Portfolio for the Tertiary Level Faculty Members of St. Paul University Philippines states that the researchers conducted the study that aimed to develop a better system for the end-users of Saint Paul University Philippines. The study was addressing the following concerns primarily the Functionality, Reliability, Usability, Maintainability and Probability of the propose E-portfolio for Saint Paul university Philippines.



The researchers conducted a test to assess the proposed system and have found out that the ratings for the proposed system was "very satisfactory" in terms of its functionality, reliability, usability and maintainability.

In relation with this study improving the manual system (through migrating into the automated system) in terms of its functionality, reliability, usability and maintainability. Can and will be reinforced into our system for a better optimization which will leads to an increase in efficiency and productivity of the benefiting institution.

According to Rowie Dabu and E. Nicolas, et.al (2015). On their research entitled LAN-Based Student Faculty Evaluation System for Gordon College states that the researchers of this study has an objective of creating a module where the students' evaluation is stored in order for the professors or the faculty members to conveniently view the necessary information about the student.

Both of the systems considered the security of the information we input into our systems. Our proposed system has the same security feature that establishes the end-users



to provide authentication to ensure that the possibility of identity theft can and will be averted.

According to C. Barreno and A. Arevalo, et.al (2014). On their research entitled Computerized Grading System for Metropolitan academy of Manila. States that a grading system plays a key role in the management system of any school .But with the consciously increasing population of students. The manual process of computing the grade of each and every students places a large amount of work load to the teachers.

Therefore improving the manual process will greatly increase accuracy and productivity of the teachers and the school. A computerized grading system is a highly desirable addition to the educational tool-kit particularly when it can provide less effort and a more effective and timely outcome.

According to B. Zamora and M. De Ocampo, et.al (2014). On their research entitled SNHS On-line Enrollment and Grading System with a Capability of sending email for announcement and notification states that they have created a computerized system that will let the instructors encode grade which has different personal accounts.



The proposed system is a web-based system which will eliminate the inconvenience for a student to go to their advisers just to have a copy of their grades. Through this system it limits the errors produced by the teachers in terms of calculating the grades of the students.

In connection with this study which is also an online grading system. Both of our systems have the capability to shorten the process of inquiry of grades and also enable the teacher to encode grades online.

According to Y.K. S., Ph.D, M A. Hambali, M.Sc.2 and Abdulummeen A. Adedeji, B.Sc.1 , et.al (2009). Attendance Management System Using Barcode Identification on Students' Identity Cards states that attendance monitoring cannot be over emphasized, as a result of this, administrators and lecturers of various academic institutions are concerned with the attendance irregularities.

The academic institutions must have a system that will monitor the attendance of the participants by reason of having the academic grade performance considered as a variable that affects the totality of the computation. The existing model of manual attendance monitoring (using paper



sheets and an old file system) is not efficient and it is also time consuming. These aforementioned shortcomings among others serve as justification for migrating from manual based to the proposed system.

According to G. Lalas and Dr. Dave E. Marcial (2014). On their research entitled Developing a Grading and Monitoring System: Towards an Effective Academic Evaluation. Most of the general academic evaluation involves various activities such as Grading, Monitoring and Reporting. According to the researchers because of the standard way of grading and monitoring students. It led to limited access of grades and progress consultation between faculty and students.

A report was given by the researchers proving that there is also inefficient distribution of reports across the departments of the school.

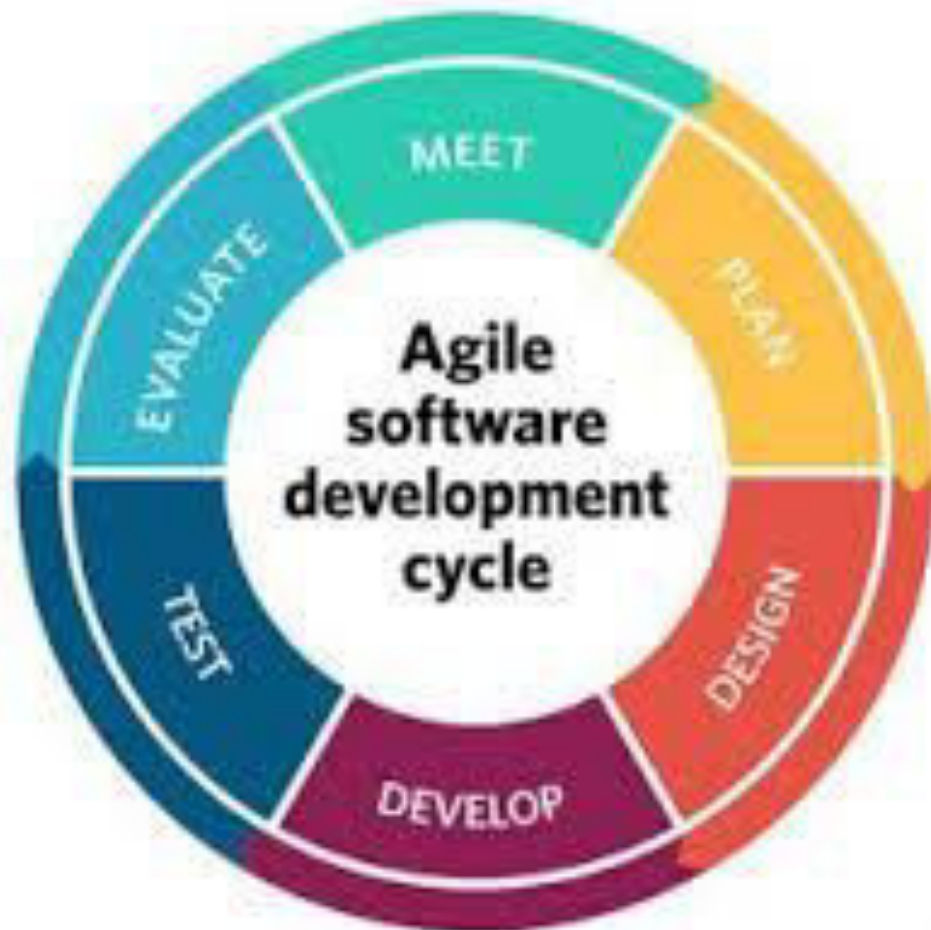


### **Synthesis**

Relevant to this study, Eradicating the problem of having a limited access of grades for the students and the teachers with a centralized system of viewing and dispersing information can solve the problems such as progress consultation and poor communication between students and teachers that leads to a better facilitated publication of information. We can conclude that having an automated way of monitoring the attendance would greatly enhance the efficiency, reliability and functionalities of the current system which is the manual process of attendance monitoring. And in relation with our study migrating from a manual based attendance monitoring system into a computerized way of checking of attendance. We have also seen the hassle of going through a manual process which can also be a justification for providing an automated system to compensate the current manual system.

### Conceptual Framework

Agile Software development life cycle MODEL - The researchers used the agile software development life cycle because while doing the system the researchers are communicating with clients to develop a system that is applicable to Tuguegarao City Science High School.





Paradigm of the study

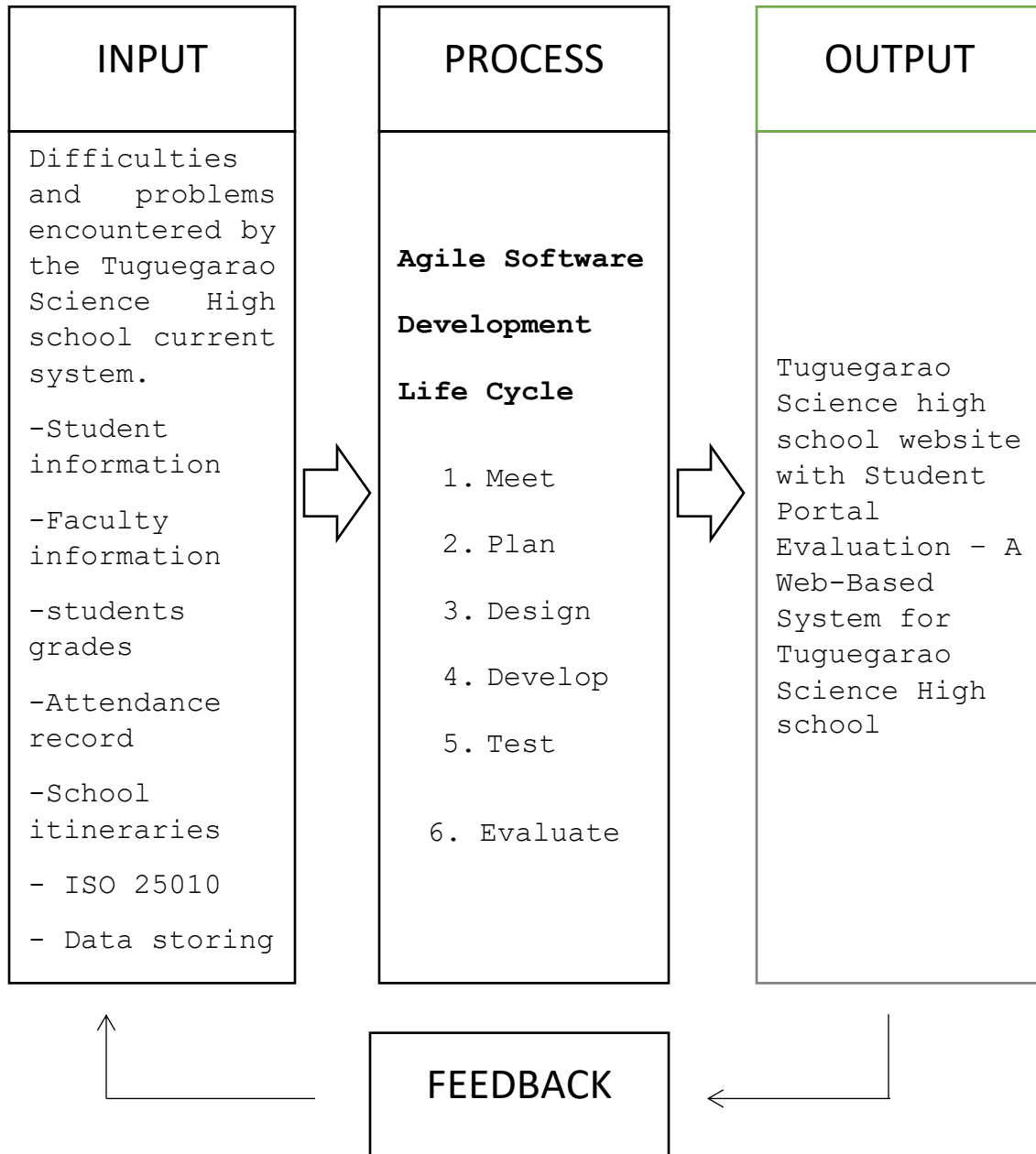


Figure 1



Meet:

The researchers met the client to know the essential informational concepts that would aid for the betterment of the system that would be developed.

Plan:

After meeting the client, the researchers conceptualized the functionalities and features of the proposed system checking the feasibility of each idea that they would be turning into reality and have also prearranged the objectives that they completed

Design:

The researchers designed the proposed system according to what the client expects. And assure that the system would offer a great extent of functionality which would be more convenient to use and would also have a user friendly user-interface facilitated through aesthetics.



Develop:

The researchers developed the proposed system in order to satisfy their client's needs.

Test:

The researchers tested the proposed system for further recommendations.

Evaluate:

The researchers demonstrated the system to the client for evaluation.



### **Statement of the Problem**

General Statement: The study aimed to create a website with student portal for the Tuguegarao City Science High School.

Specifically, it sought to answer the following questions

1. What are the problems encountered by the participants in the current system in terms of the following:

- 1.1 Attendance Monitoring,
- 1.2 Grading System,
- 1.3 No existing website, and;
- 1.4 Student evaluation?

2. What system can be developed to enhance the current transactions and processes involved in the present system?

3. What is the extent of compliance of the developed system application to ISO 25010 Software Quality Assurance Standards in terms of the following software features/capabilities?

- 3.1 Functionality
- 3.2 Reliability
- 3.3 Efficiency



3.4 Compatibility

3.5 Usability

3.6 Security

3.7 Maintainability

3.8 Portability

#### **Scope and limitations**

This study entitled "Tuguegarao City Science High School website with student portal" is focused only to Tuguegarao City Science High School as an institution. The study is limited only to the information, updates, policies, news, events or activities, student attendance, content management and student portal. The only purpose of the student portal is just for viewing of grades and attendance of junior high students through online. The system would not cover any financial transactions and offline use of the system.



### **Significance of the study**

Website with student portal for Tuguegarao City Science High School provided a marked improvement in the way teacher's record and the study will be a great help to the following:

Tuguegarao City Science High School: The system would help the school to become more efficient in terms of computing grades and attendance monitoring.

Principal: The system would help the principal in monitoring the status of junior high school student in the school and the principal is no longer have to re-compute the grades of each student to check on their accuracy. The principal can view all the events and

Faculty Members: It could serve as an instrument in order for them to communicate with their students. And the system would keep them updated to the events and curricular and extracurricular activities of the school.

Students: This study would keep them updated to the different news, information and events of the school. And the system would let the students view their grades online.



Parents: The system would help the parent to monitor their children's attendance.

Researchers: The system would help the researchers to improve the set of skills in relation to web portals or designing of website.

Future researchers: The study will provide the future researchers the related literature and procedures that will help them gain insight about the study. It will serve also a source for a new wider scope of related study.



## **DEFINITION OF TERMS**

System - a set of things working together as parts of a mechanism or an interconnecting network.

Primary user - The term primary user describes someone who interacts with a system. The primary user is in direct contact with the system interface and thus is usually most affected by it.

User-interface: the means by which the user and a computer system interact, in particular the use of input devices and software.





## **Chapter 2**

### **METHODOLOGY**

#### **Research Design**

The research design used in the study is the descriptive design. The descriptive design is used to obtain needed information such as the flow of the process of doing grades, attendance monitoring, student evaluation and the features that will be used in the system.

### Input-Process-Output

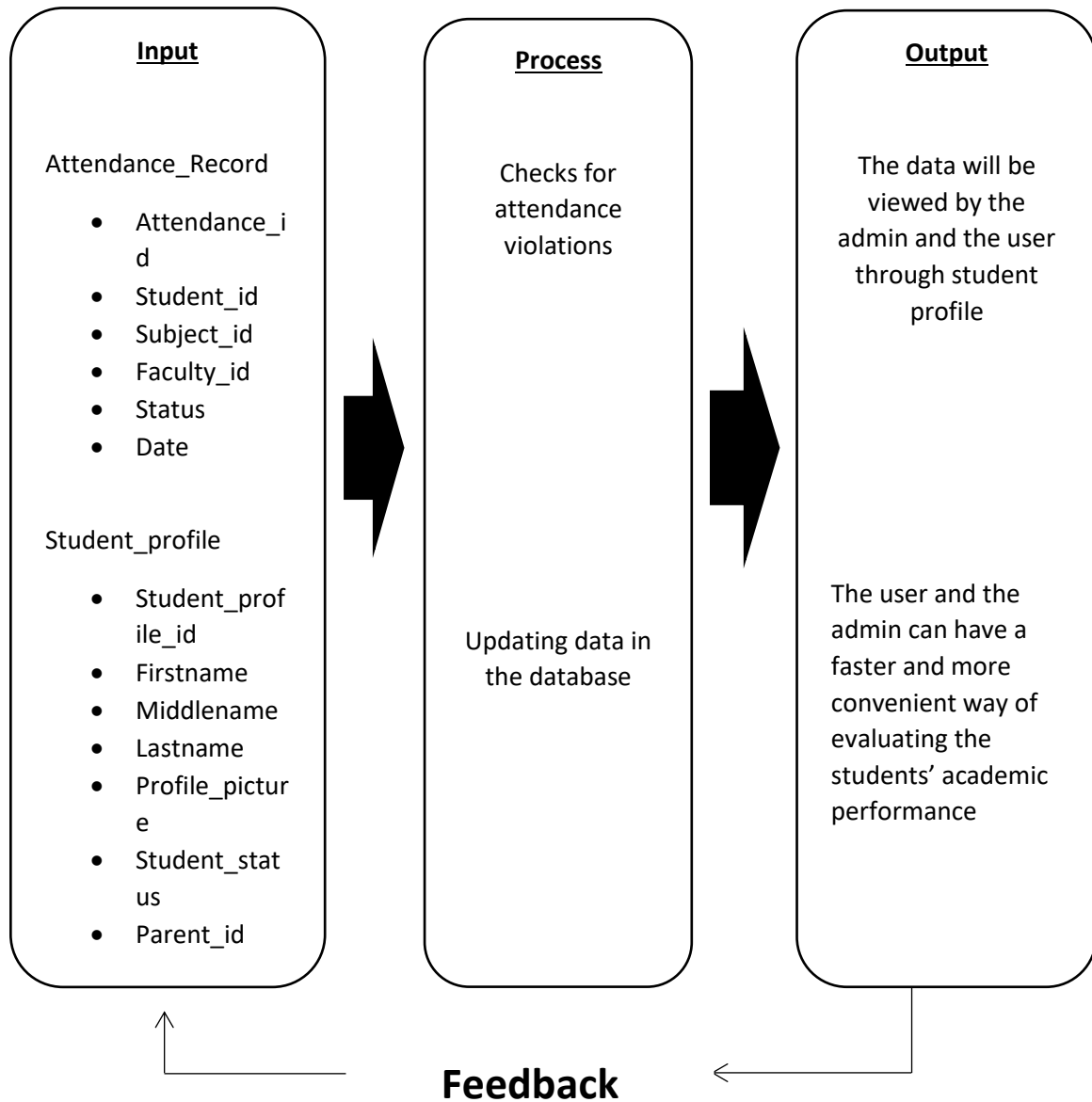


Figure 2

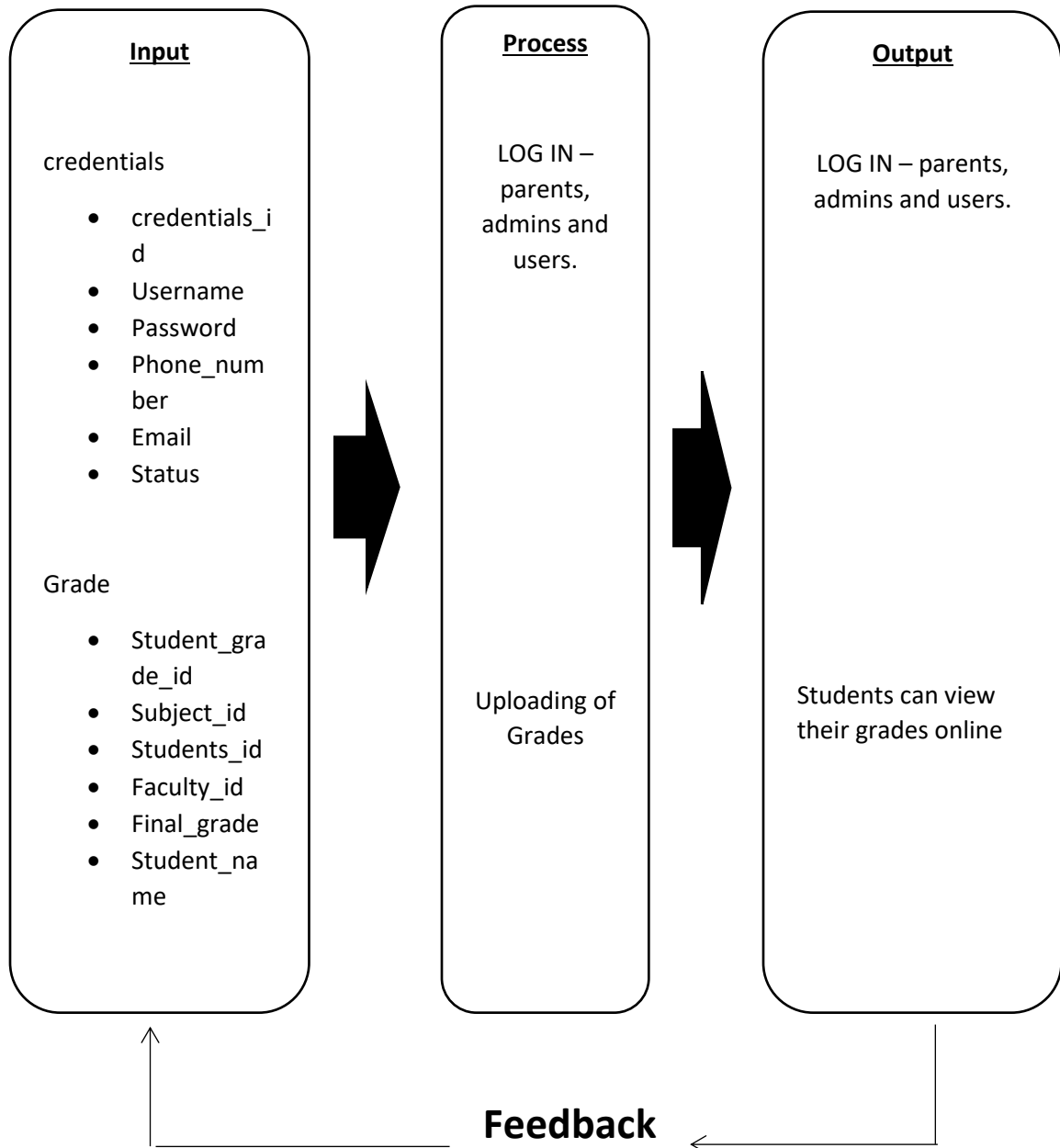


Figure 3

## Data Flow Diagram

### Level 0

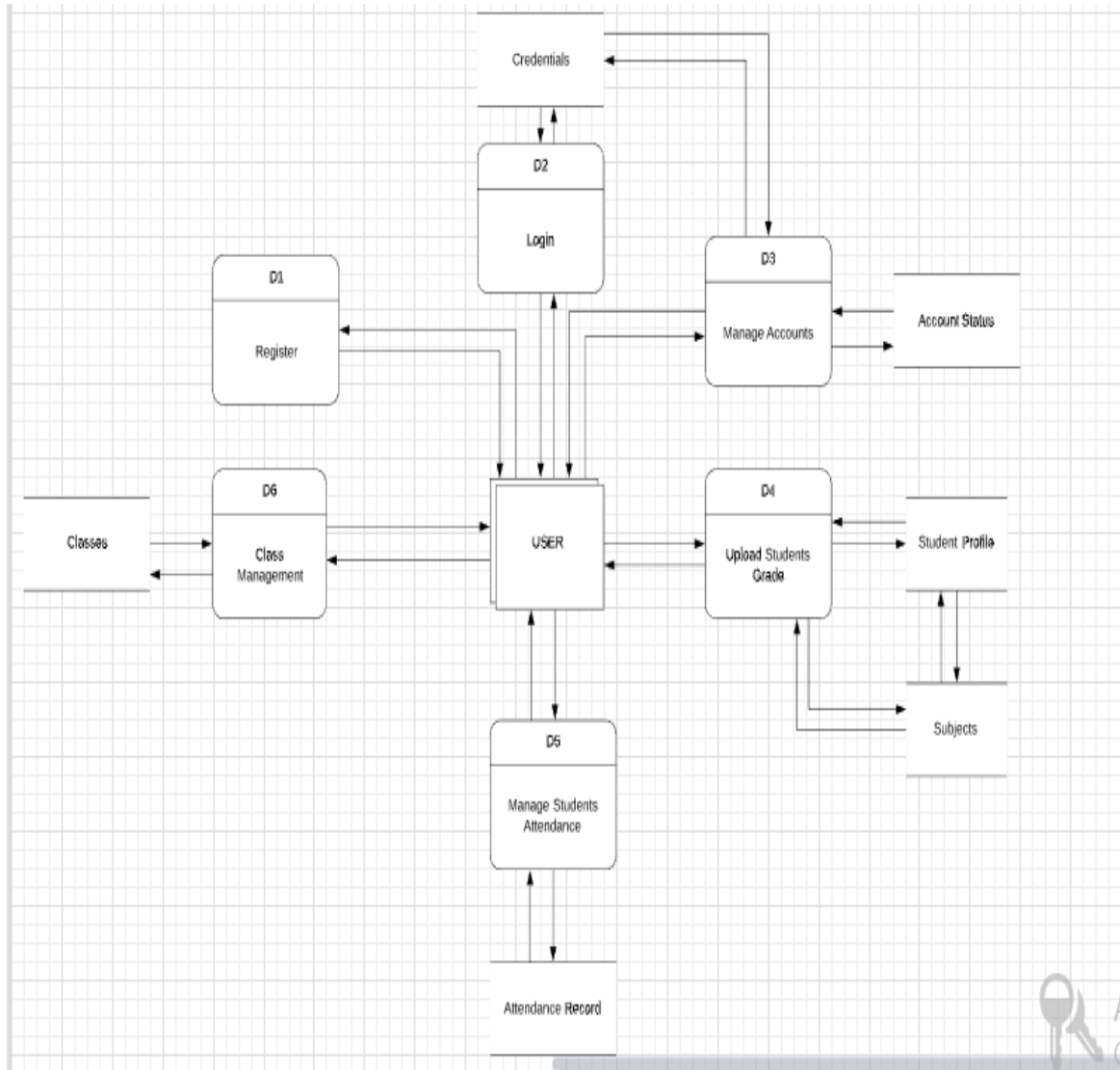


Figure 4

Level 1

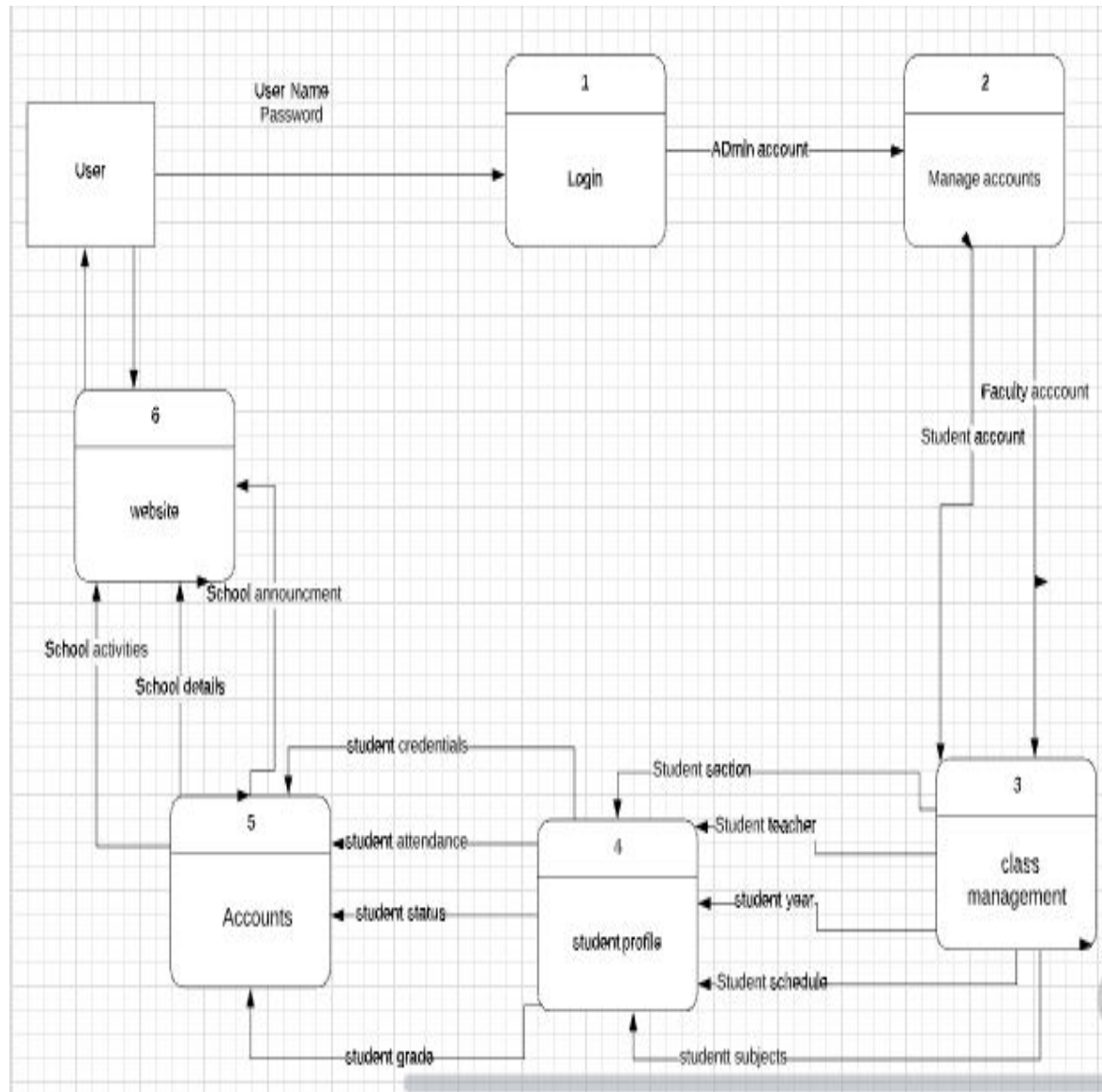
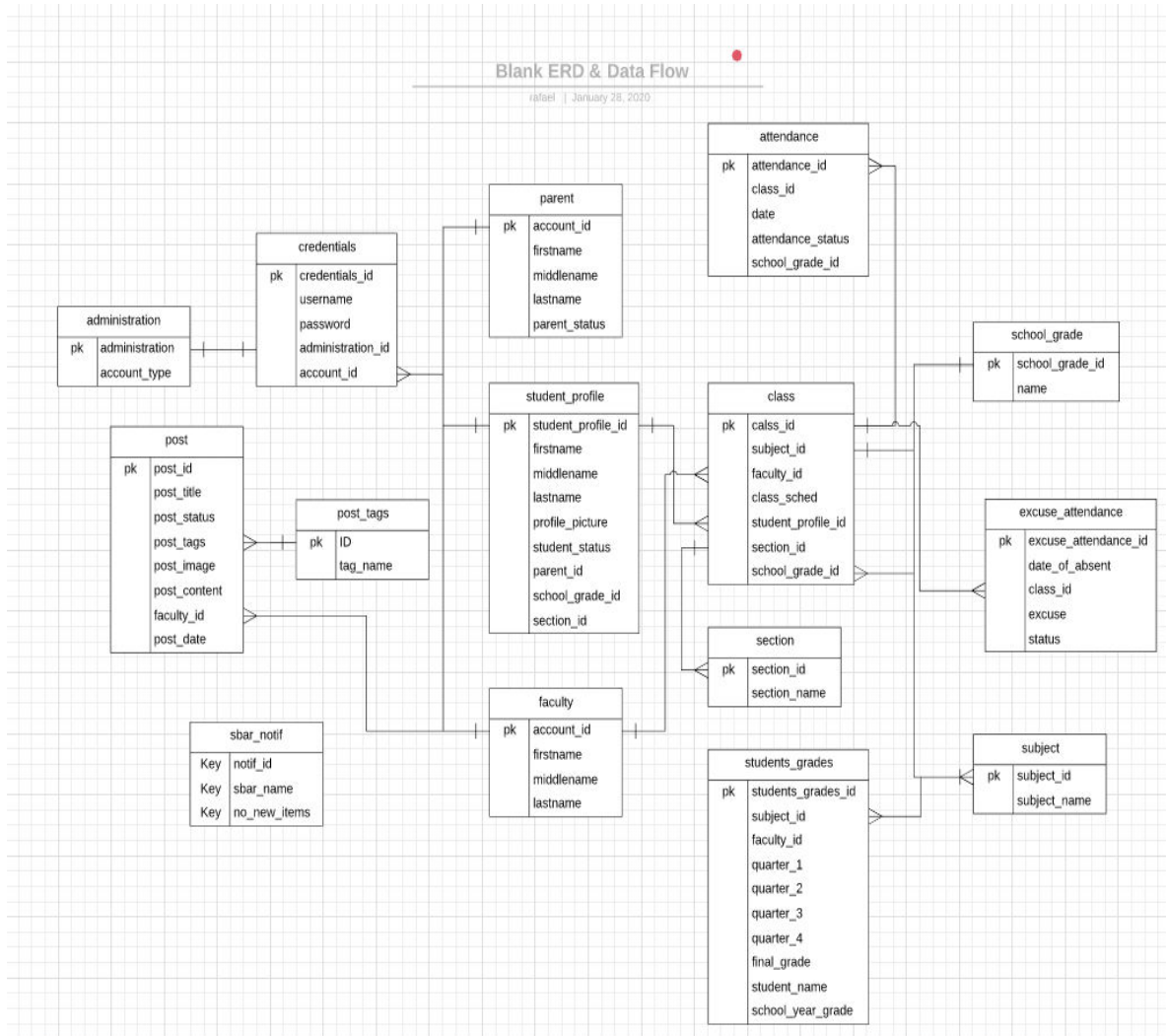


Figure 5



## Entity Relationship Diagram





### Table design

TABLE	FIELD	DATA TYPE	FIELD SIZE	FIELD NAME	Primary Key
Account_status	Account_status_id	Int	25	Account_status_id	Yes
	Account_status	Varchar	25	Account_status	
Student	Student_id	Int	25	student_id	Yes
	Student_firstname	Varchar	30	student_firstname	
	Student_middlename	Varchar	30	student_middlename	
	Student_lastname	Varchar	30	student_lastname	
	Student_age	Varchar	30	student_age	
	Student_sex	Varchar	30	student_sex	
	Student_nationalism	Varchar	30	student_nationalism	
	Student_religion	Varchar	30	student_religion	
	Student_address	Varchar	30	student_address	
	Student_email	Varchar	30	student_email	
	Student_contact_no	Varchar	30	student_contact_no	



	Guardian_name	Varchar	30	guardian_name	
	Guardian_contact_no	Varchar	30	guardian_contact_no	
Credentials	Credentials_id	Int	20	credentials_id	Yes
	Student_id	Int	20	student_id	Fk
	Faculty_id	Int	20	faculty_id	Fk
	Username	Varchar	30	username	
	Password	Varchar	30	password	
	Phone_number	Varchar	15	phone_number	
	Email	Varchar	40	email	

	Account_status_id	Int	20	account_status_id	Fk
Grade	Grade_id	Int	20	grade_id	Yes
	Subject_id	Int	20	subject_id	Fk
	Quarter	Int	30	quarter	
	Homework	Int	20	homework	
	Seatwork	Int	20	seatwork	





	Quiz	Int	20	quiz	
	Recitation	Int	20	recitation	
	Periodic_exam	Int	20	periodic_exam	
	Remarks	Int	20	remarks	
	Final_grade	Int	20	final_grade	
	Student_id	Int	20	student_id	Fk
Attendance_record	Attendance_id	Int	20	attendance_id	Yes
	Student_id	Int	20	student_id	Fk
	Subject_id	Int	20	subject_id	Fk
	Faculty_id	Int	20	faculty_id	Fk
	Status	Varchar	20	status	
	Class_id	Int	20	class_id	Fk
Subjects	Subject_id	Int	20	subject_id	Yes
	Subject_name	Varchar	30	subject_name	
Student_profile	Student_profile_id	Int	20	student_profile_id	Yes
	Student_id	Int	20	student_id	Fk
	Academic_status_id	Int	20	academic_status_id	Fk



	Grade_id	Int	20	grade_id	Fk
	Section_id	Int	20	section_id	Fk
	Attendance_id	Int		attendance_id	Fk
Section	Section_id	Int	20	section_id	Yes
	Section_name	Varchar	30	section_name	
	Faculty_adviser	Varchar	20	faculty_adviser	
Classes	Class_id	Int	20	class_id	Yes
	Section_id	Int	20	section_id	Fk
	Subject_id	Int	20	subject_id	Fk
	Student_id	Int	20	student_id	Fk
	Class_schedule	Varchar	30	class_schedule	
Faculty_status	Faculty_status_id	Int	20	faculty_status_id	Yes
	Faculty_postion	Varchar	65	faculty_postion	
Academic_status	Academic_status_id	Int	20	academic_status_id	Yes
	Academic_status	Varchar	30	academic_status	
Faculty	Faculty_id	Int	20	Faculty_id	Yes
	Faculty_postion_id	Int	20	Faculty_postion_id	Fk
	Faculty_name	Varchar	65	Faculty_name	
	Faculty_contact_no	Varchar	20	Faculty_contact_no	
	Faculty_email_address	Varchar	65	Faculty_email_address	

Table 1



### **Participants of the Study**

In order to obtain the desired information, the participants of the study are composed of the following:

- Principal of Tuguegarao City Science High School.
- Faculty Members of Tuguegarao City Science High School
- Junior High School students of Tuguegarao City Science High School
- Parents of the Junior High School students of Tuguegarao City Science High School
- IT experts



### **Instrumentation**

#### **Interview:**

This involved the collection of data through direct verbal interaction. It was used in the beginning of the study. The researchers conducted an interview with the principal to gain information, ideas or opinion regarding to the exact present procedures in disseminating information, the appropriate domain name to be registered, the design and content of the website.

#### **Internet:**

The researchers used the internet for additional information and to research for the related studies of the proposed system.

#### **Library:**

The researchers went to the library in order to gain more reliable information to be used as basis in this research.

#### **Personal computer:**

The researchers used their personal computers to research and to develop the system.



## Microsoft Productivity Tools

The researchers used the Microsoft particularly the Microsoft word in editing their manuscript and the researchers used the Microsoft PowerPoint in preparing their presentation.



### **Data Gathering Procedure**

In order to obtain the data to be gathered, the researchers would:

1. Request for permission for the development of the project from the Dean, in order to conduct the proposed study "Tuguegarao City Science High School Website with Student Portal".
2. Submit a letter to the client to approve the proposed study.
3. Secure informed consent for the participants of the proposed study.
4. Conduct a formal interview
5. Analyze, interpret, and organize the gathered data for the development of the system.



### **Chapter 3**

#### **RESULTS AND DISCUSSION**

This chapter presents the result of the study base on:

a. Attendance Monitoring

In attendance monitoring teachers are using ball pen and paper to record their student's attendance

b. Grading system

In grading system the teachers records the activities, assignment, exams and quizzes manually using Microsoft excel.

c. No existing website

Tuguegarao City Science High School has no existing website.

d. Student evaluation

In student evaluation teachers used Microsoft excel or ball pen and paper in recording their students grade. They are evaluating their students by



scanning one by one their records which will lead into a waste of time.

I. Features of the systems to be developed to address the problems and concerns of the existing system.

TUGUEGARAO SCIENCE HIGH SCHOOL WEBSITE WITH STUDENT PORTAL, System will help the school for making a good first impression as it often is the first contact that people have with the school. The website will deliver a good user experience for its regular users, including teachers, student and parents. The students can also access their grades online and the parents can monitor their children's attendance online.



II.

### Capstone Project Design and Methodology

The Website with student portal is a Web-Based System for Tuguegarao City Science High school.

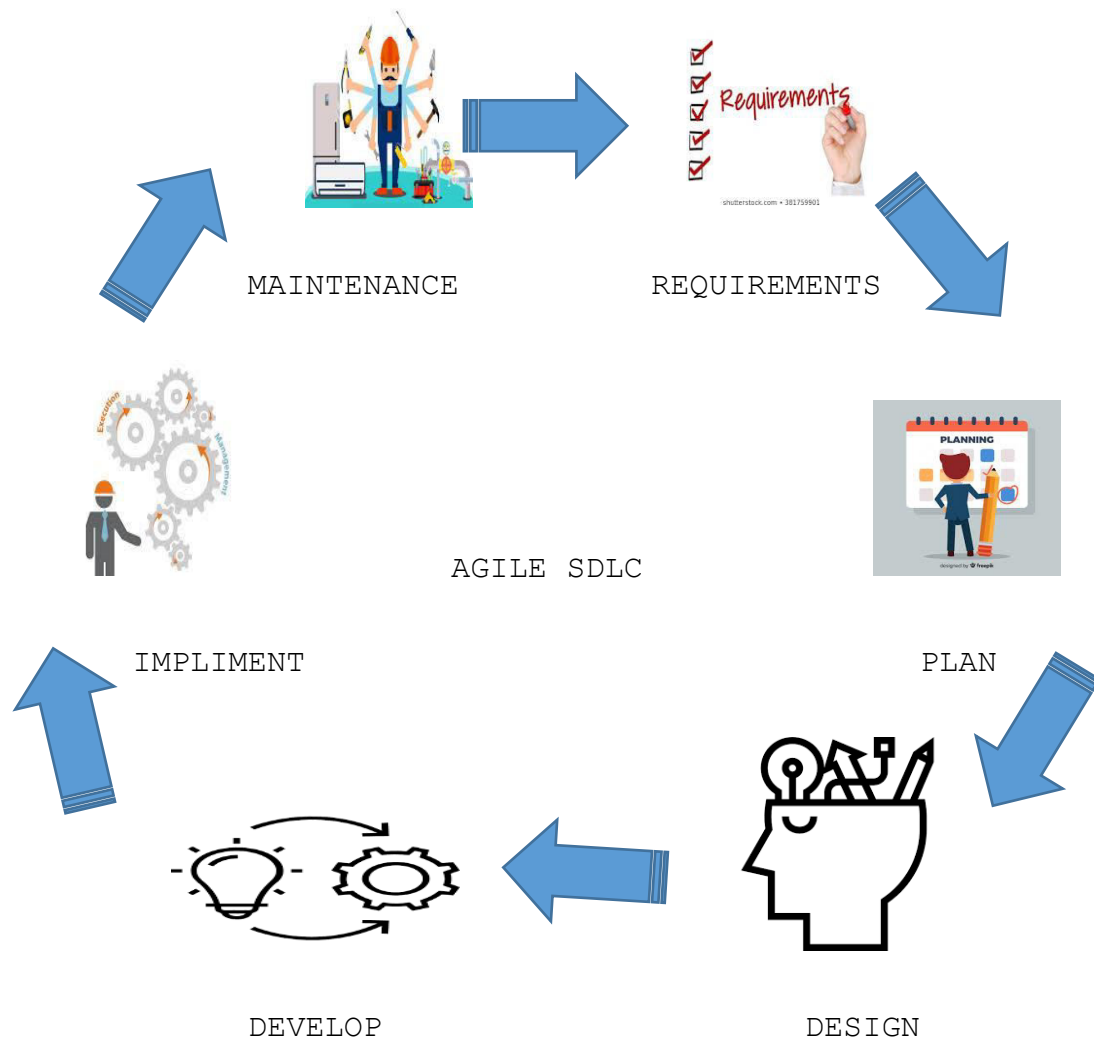


Figure 7

### Description of the Present System

Since the Tuguegarao City Science High School Don't has a website that will give a good first impression to other people and a student portal, they used manual process to advertise the school and in monitoring the student's attendance.

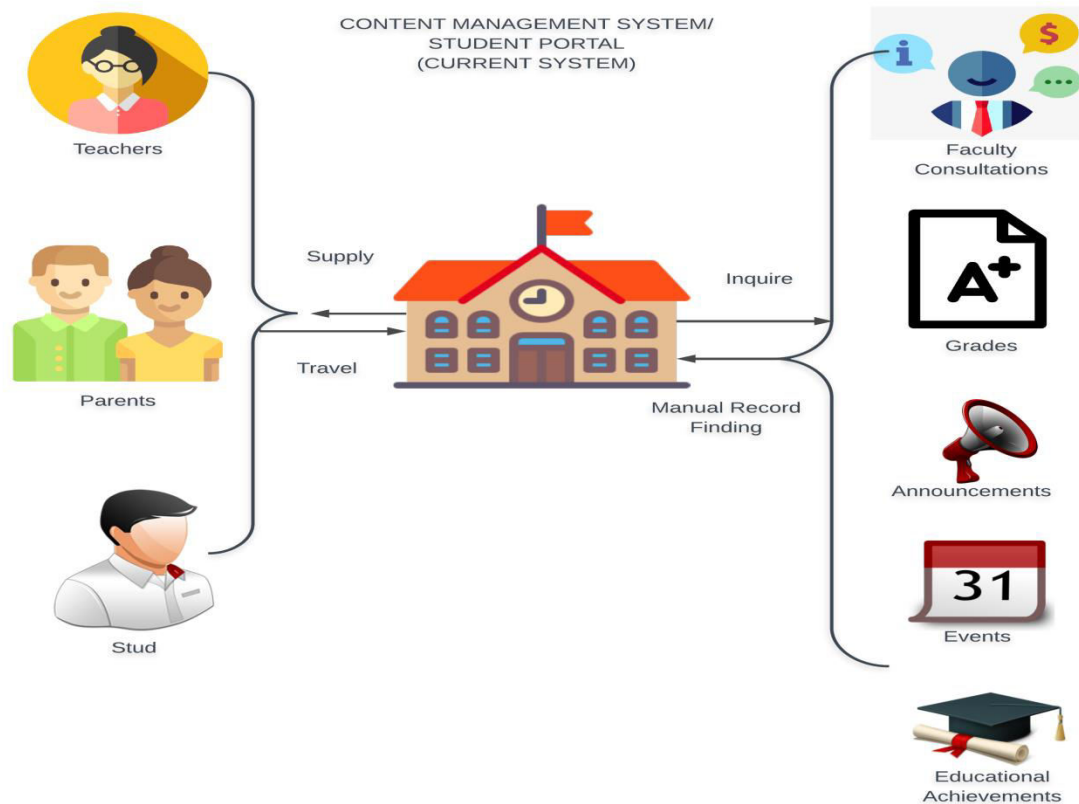


Figure 8

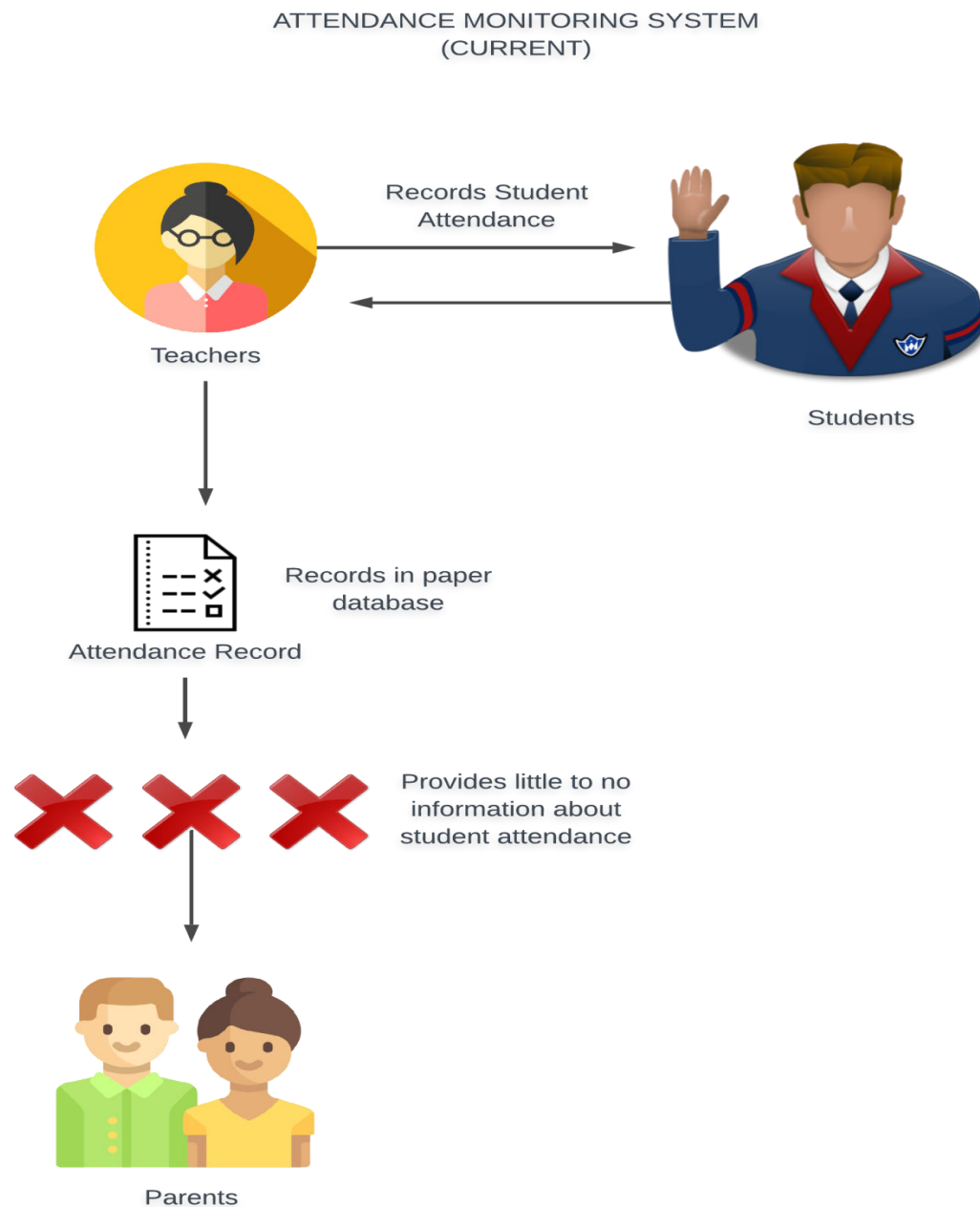


Figure 9

### Description of the Proposed System

The proposed system will lessen the work load of the teachers. In addition, the students can view their grades online. And the parents can monitor their children's attendance and academic status online

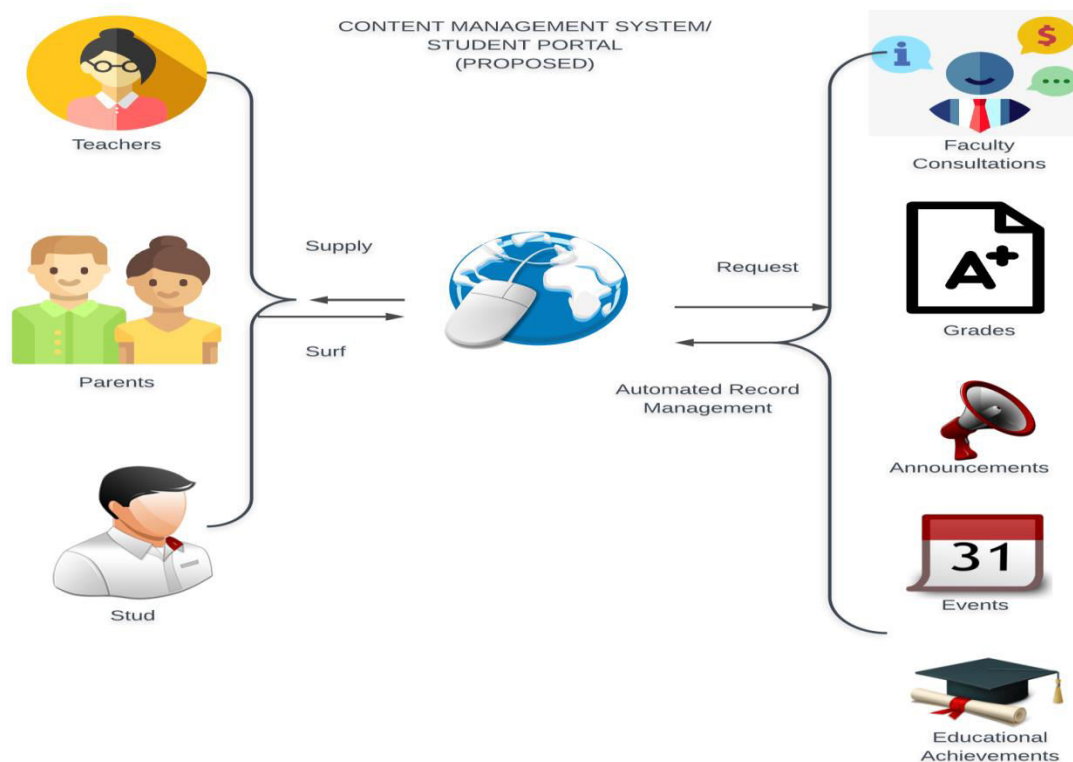


Figure 10

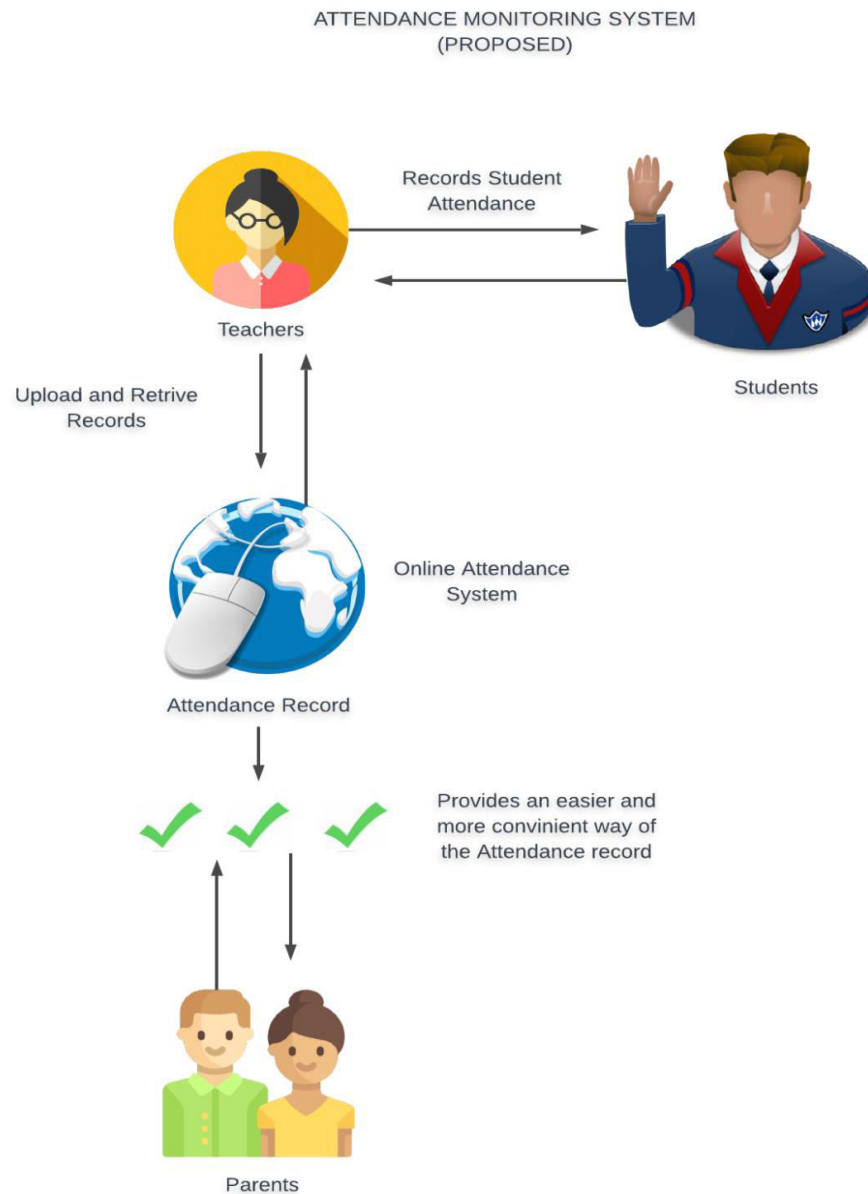


Figure 11



## GANTT CHART

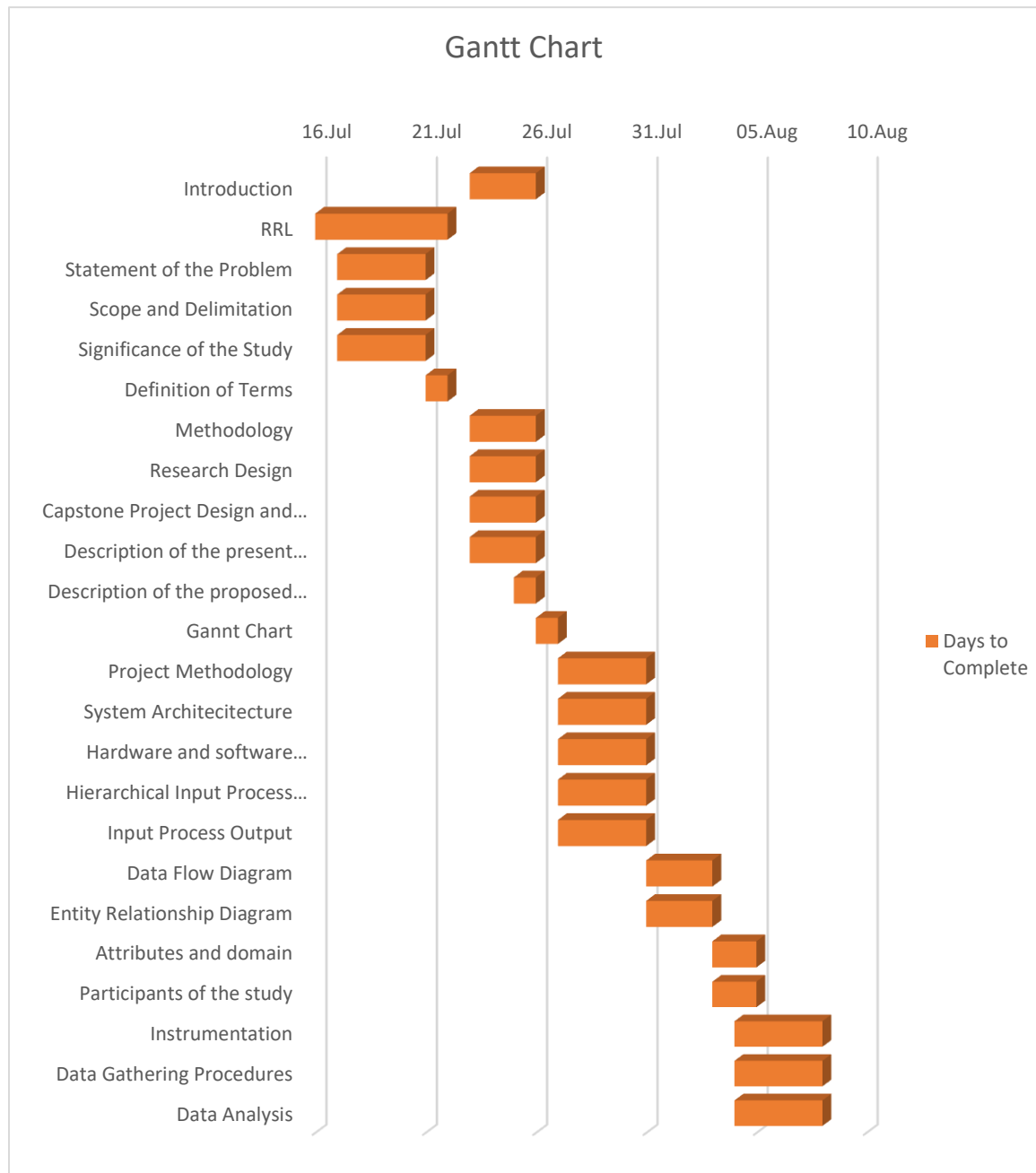


Figure 12



## **NETWORK ARCHITECHTURE**

The user needs internet and hosting service to use the system. The system has a database and a system server. The system can be used in laptops, tablets, personal computer and smart phones. The user of the system would be the Junior High students and faculties of Tuguegarao City Science High School. The admin would be the principal.

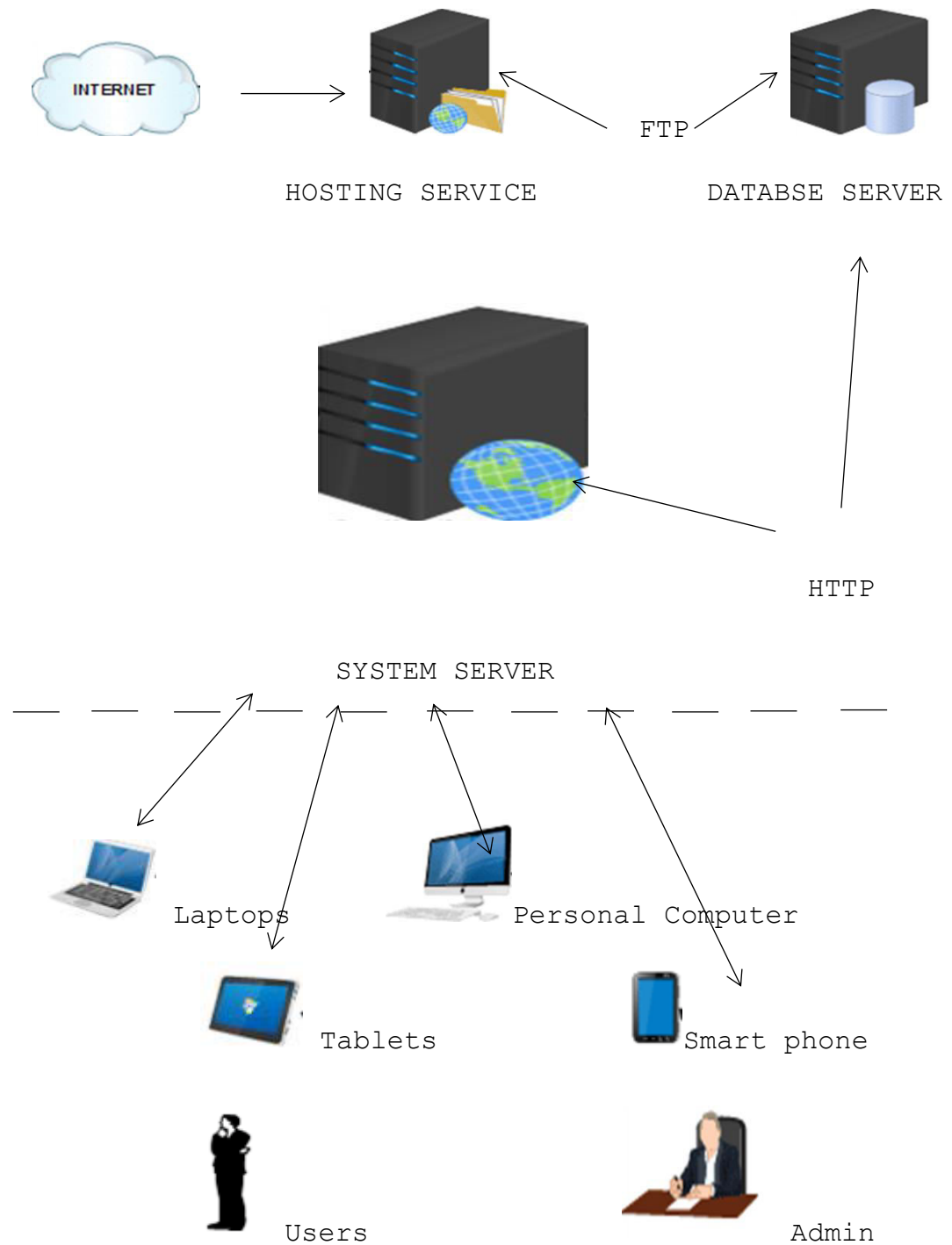


Figure 13





## HARDWARE AND SOFTWARE REQUIREMENTS

It is significant for the proposed application software to identify the costs and analyze them in comparison with its benefits. The Venture should not only bring qualitative value but must generate net income to support the operations of the venture. The financial benefit must be computed to access its profitability and sustainability.

### Cost of Hardware

ITEM	QUANTITY	PRICE
Computer	1	P32,000.00
Internet Connection	Monthly	P2,000.00

Table 2



Software Costs

ITEM	QUANTITY	PRICE
Windows 7 or higher Edition 64bit	1	Available At Tuguegarao Science Highschool
Google Chrome	N/A	Free Download

Table 3



## Hierarchical Input-Process-Output

### Admin View

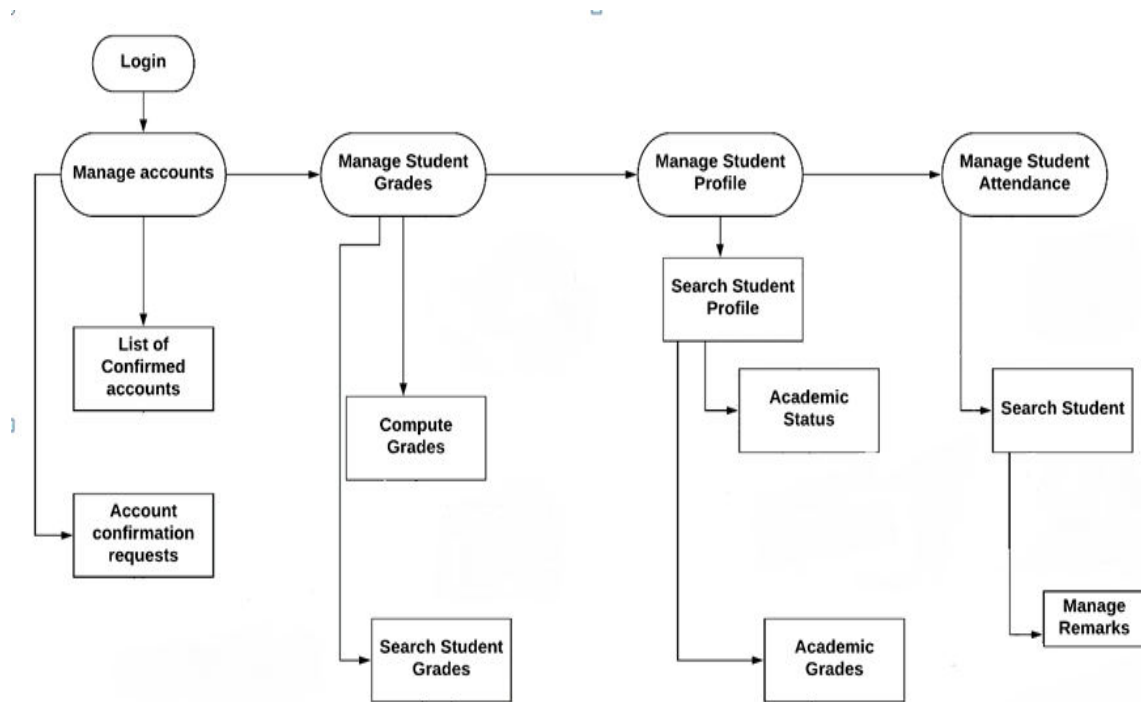


Figure 14



Users View

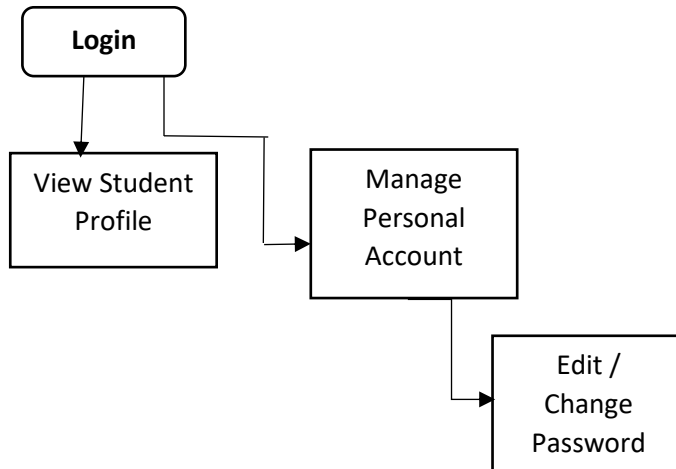


Figure 15



## RESULT AND DISCUSSION

Mean Scores in the Functionality of the developed system.

Quality Criteria of System based on ISO 9126-1			
A. Functionality (S) Suitability - Can the system perform the tasks assigned? (A) Accuracy - Can the system produce expected results? (I) Interoperability - Can the system interact with other system? (S) Security Access - Is the system equipped with acceptable security measure?			
No.	Attributes	Mean	Descriptive Interpretation
1	Does what is appropriate(S)	4.50	Very Great Extent



2	All of the functionality required for its execution is available(S)	3.80	Great Extent
3	Does what was proposed correctly(A)	4.20	Great Extent
4	Is accurate in performing its functions(A)	3.80	Great Extent
5	Results are accurate / conforms to expectation (A)	3.70	Great Extent
6	Interacts with the specified modules(I)	3.90	Great Extent
7	Can be operated by several users at the same time (multiuser) (I)	4.10	Great Extent
8	Can operate with other system (I)	3.90	Great Extent
9	Is file protected (SA)	3.90	Great Extent
10	Has an internal backup routine or function (SA)	3.50	Great Extent
11	Has an internal restore routine or function(SA)	3.50	Great Extent
	OVERALL MEAN	3.90	Great Extent

Table 2.1

The table above shows that the mean assessment of the IT experts on the functionality of the developed system ranges from 3.50 to 4.50. It can be seen from the table that the mean assessments in the eleven (11) items are characterized to have a "Great Extent" and the overall weighted mean of 3.90 implies that the developed system has generally complied with the Functionality requirement to a "Great Extent".



Mean Scores in the Efficiency of the developed system

<p>B. Reliability</p> <p>(M) Maturity - Can most of faults be eliminated over time?</p> <p>(F) Fault Tolerance - Can the system handle errors?</p> <p>(R) Recoverability - Can the system resume working and restore data?</p>			
No.	Attributes	Mean	Descriptive Interpretation
1	Has few failures / reliable in operation (M)	3.60	Great Extent
2	Reacts appropriately when failures occur (F)	3.70	Great Extent
3	Informs users concerning invalid data entry (F)	4.00	Great Extent
4	Is capable of recovering data in the event of failure (R)	4.00	Great Extent
OVERALL MEAN		3.82	Great Extent

Table 2.2

The table above reveals that the mean assessments of the IT experts on the Performance Reliability of the said system ranges from 3.60 to 4.00. The item that was rated highest by the IT experts is "Informs users concerning invalid data entry (F)" and "Is capable of recovering data in the event of failure (R)". While the item that was rated



lowest by them is "Has few failures / reliable in operation(M)". Furthermore, the overall weighted mean of 3.82 implies that generally the developed system has complied with the Reliability requirement to a "Great Extent".





Mean Scores in the Usability of the developed system

C. Usability (U) Understandability - Can the system be understood easily? (L) Learnability - Can the system be learned easily? (O) Operability - Can the system be operated with minimal effort?			
No.	Attributes	Mean	Descriptive Interpretation
1	Easy to understand the concept and application (U)	4.20	Very Great Extent
2	Easy to perform its functions (U)	4.10	Great Extent
3	Easy to learn how to use (L)	4.10	Great Extent
4	Facilitates the users' data entry (L)	4.00	Great Extent
5	Facilitates the users' retrieval of data (L)	3.90	Great Extent
6	Easy to operate and control (O)	4.00	Great Extent



7	Help is provided in a manner that is easily understood (O)	4.00	Great Extent
	OVERALL MEAN	4.04	Great Extent

Table 2.3

Having a mean of 3.90 (Great Extent). The table also shows that majority of the items are characterized as "Great Extent" and the overall weighted mean of 4.04 implies that the said system has generally complied with the Compatibility requirement to a "Great Extent".

Mean Scores in the Efficiency of the developed system

D. Efficiency			
(T) Time Behavior - Does the system behave in a timely manner?			
(R) Resource Behavior - Does the system perform in a resource manner?			
No	Attributes	Mean	Descriptive Interpretation
1	Response time is appropriate (T)	4.50	Very Great Extent
2	Execution time is appropriate (T)	4.20	Very Great Extent
3	Resources needed are appropriate (R)	4.20	Very Great Extent
1	OVERALL MEAN	4.30	Very Great Extent

Table 2.4

The mean assessments of the IT experts on the Performance Efficiency of the said system ranges from 4.20 to 4.50. The items that were rated highest and lowest by the IT experts are "Response time is appropriate (T)" and "Resources needed are appropriate (R) and Execution time is appropriate (T)" respectively.

Moreover, the overall weighted mean of 4.30 implies that generally the said system has complied with the Performance Efficiency requirement to a "Very Great Extent".



Mean Scores in the Maintainability of the developed system

<p>E. Maintainability</p> <p>(A) Analyzability - Can the system be troubleshooted easily?</p> <p>(C) Changeability - Is the system easy to modify or adapt to user needs?</p> <p>(S) Stability - Is the system negatively impacted by system changed?</p> <p>(T) Testability - Can the operation of the system be tested and verified?</p>			
No.	Attributes	Mean	Descriptive Interpretation
1	Easy to diagnose the failure when it occurs (A)	3.80	Great Extent
2	Easy to modify and adapt (C)	3.90	Great Extent
3	Changes do not seriously impact the system (S)	3.70	Great Extent
4	Changes are easy to test (T)	4.00	Great Extent
	OVERALL MEAN	3.85	Great Extent

Table 2.5

The table above, the mean assessments of the IT experts on the Maintainability of the developed system ranges from 3.70 to 4.00. Of the four items, "Changes are easy to test (T)." was rated highest while "Changes do not seriously



*impact the system (S)."* was rated lowest. Furthermore, the table also shows that the mean assessments in all items are characterized as "Great Extent". The overall weighted mean of 3.85 implies that the developed system has complied with the Maintainability requirement to a "Great Extent".

Mean Scores in the Portability of the developed system

F. Portability			
(A) Adaptability - Can the system be adapted easily?			
(I) Installability - Can system be installed easily?			
(C) Co-existence - Can the system work with existing system?			
(R) Replaceability - Can the system be replaced with similar product?			
No.	Attributes	Mean	Descriptive Interpretation
1	Easy to adapt to other environments (A)	4.10	Great Extent
2	Easy to install in other environments (I)	4.20	Very Great Extent
3	It is in agreement with portability standards (C)	4.00	Great Extent
4	Easily used to replace the functions of another program or system (R)	4.00	Great Extent
	OVER ALL MEAN	4.08	Great Extent
	TOTAL OVER ALL MEAN	3.99	Great Extent

Table 2.6

The previous table presents the mean assessment of the IT experts on the Portability of the system which ranges from 4.00 to 4.20. The items that were rated highest by the IT experts are "Easy to install in other environments (I)



While the item that was rated lowest by them is “*Easy to adapt to other environments (A)*”. The overall weighted mean of 4.08 by the IT experts suggests that the developed system has generally complied with the Portability requirement to a “Great Extent”.

Summary: The extent compliance of the developed system to ISO 25010 software quality standards by the IT experts revealed that the among six (6) defined attributes, the one that has the highest weighted mean is the “Efficiency” of the proposed system with an overall weighted mean of 3.90 which is characterized as “Great Extent”. And the total overall weighted mean was 3.70 which is characterized also as “Great Extent”.



### Performance Criteria

Quality Criteria of System based on ISO 9126-1			
Performance Criteria			
No.	Attributes	Mean	Descriptive Interpretation
1	Executes and processes at significantly higher speed compared to old system.	4.00	Great Extent
2	There is little no delay encountered in accessing the system's functions.	4.10	Great Extent
3	The system is demonstrably effective with the intended audience, including people of varying abilities and experiences.	4.20	Very Great Extent
4	Information generated by the system can easily be read and understood.	4.00	Great Extent
5	The functions of the on-screen buttons/controls and navigation icons are easily identified.	4.00	Great Extent
6	The interface design is simple, tasteful and not flooded with distracting images and text.	4.00	Great Extent
7	The system uses standard equipment that is reliable, widely available, and applicable to a variety of uses.	4.10	Great Extent
8	The program is visually attractive and interesting. It motivates users to continue using the program.	4.10	Great Extent
9	The organization of the system is clear, logical and effective, making it easy for the intended audience to understand.	4.10	Great Extent
10	The buttons, icons, and dropdown menu are responsive.	4.30	Very Great Extent





11	The visual aspect of the application (user interface) is consistent across different platforms or computer systems.	3.90	Great Extent
12	Text, images and the colors of the user interface is appropriate and relevant.	4.00	Great Extent
13	Complete functionality is provided which enables the quick and accurate access to information.	3.80	Great Extent
14	The language in the program and in the user's guide is clear and easily understood to the intended audience.	3.80	Great Extent
15	Printouts are clear, well-organized and dated.	4.10	Great Extent
16	The purpose of the sytem is well defined and clearly explained to the user.	4.10	Great Extent
17	The system acknowledges input. Fedback on user responses is employed effectively.	3.80	Great Extent
18	The system is reliable and error-free in normal use.	3.80	Great Extent
19	The user can operate the system independently, creating his or her own sequence of presentation and review.	3.90	Great Extent
20	The system achieves its purpose	4.10	Great Extent
	OVERALL MEAN	4.00	Great Extent

Table 2.7

The table above, the mean assessments of the IT experts on the **Performance Criteria** of the developed system ranges from 3.80 to 4.30. Of the twenty (20) items, "The



buttons, icons, and dropdown menu is responsive", was rated highest. Furthermore, the table also shows that the mean assessments in all items are characterized as "Great Extent" except item 10 and item 3 with an interpretation of "Very Great Extent". The overall weighted mean of 4.00 implies that the developed system has complied with the Performance Criteria requirement to a "Great Extent".

## Physical Design

### Students Accounts

In this user interface, you can activate, deactivate or delete the accounts of either the parent's account or the students accounts.

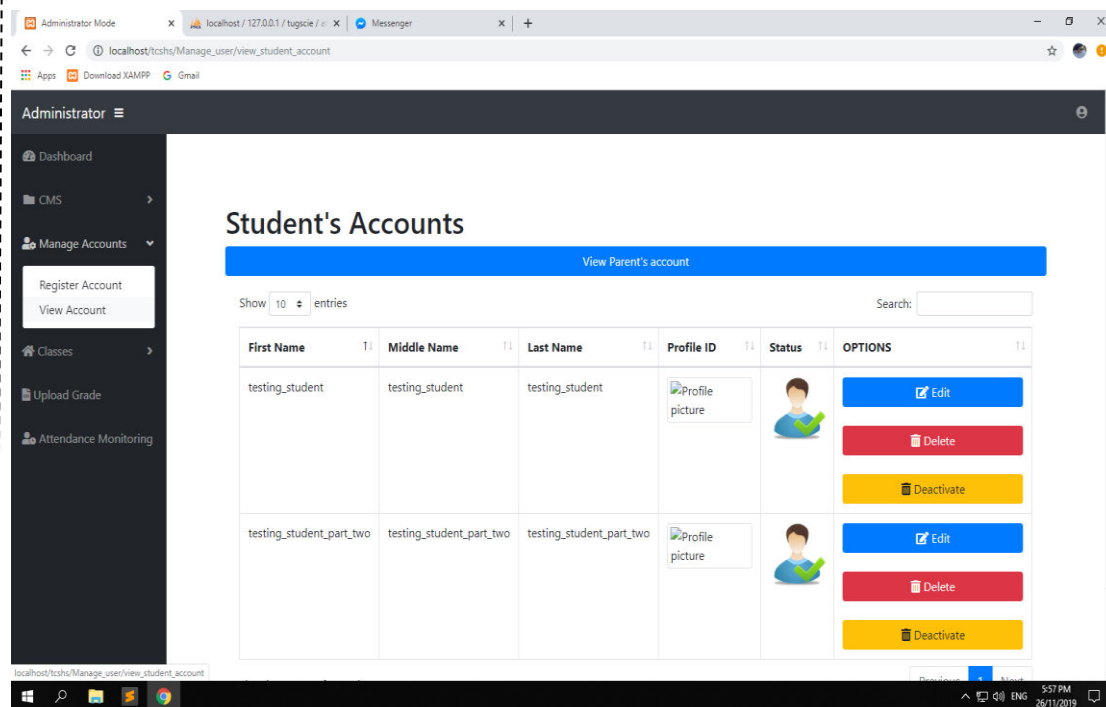


Figure 1

## Add Content

In this user interface, you can upload the contents of your website that includes the picture title and the category of the content that will be uploaded to your website

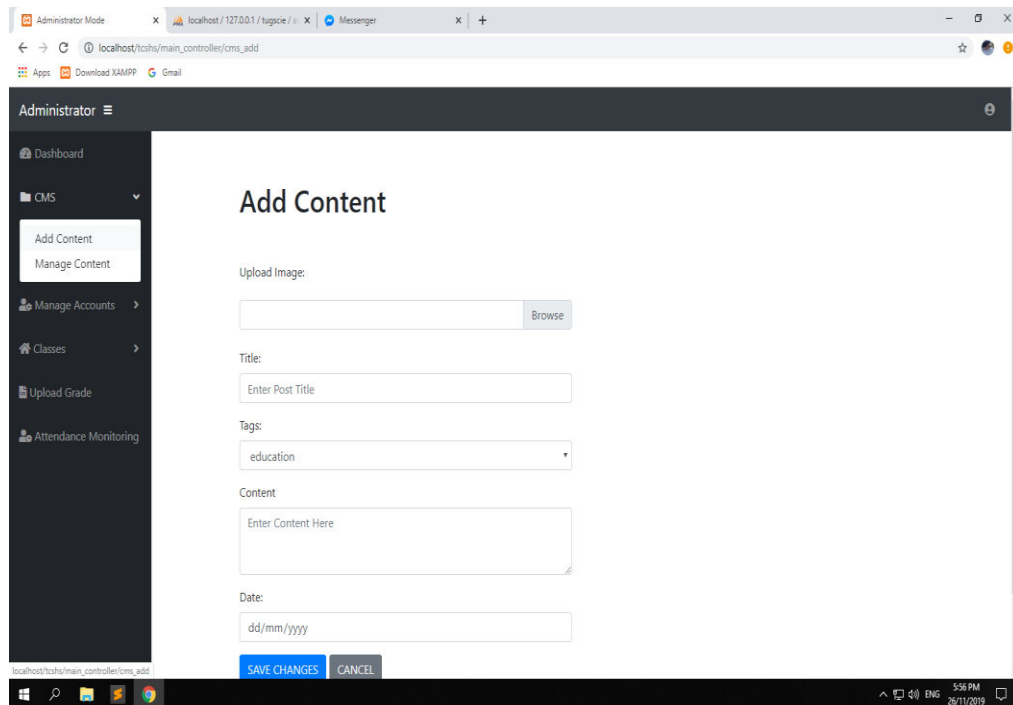


Figure 2



## Manage Class

In this user interface, you can edit and delete the class of the particular student.

Administrator Mode | localhost / 127.0.0.1 / tugscie / > | Messenger

localhost/tugscie/classes/manage\_classes

Apps | Download XAMPP | Gmail

### Manage Classes

Show 10 entries | Search:

Subject Name	Teacher	Class Schedule	Student	Section	Grade Level	Options
English	Juan Miguel Rafael Ibanez	1:30 - 3:00	Testing_student Testing_student Testing_student	Mabait	Grade 9	<a href="#">Edit</a> <a href="#">Delete</a>
Math	Sir Carlos Babaran	10:30 - 12:00	Testing_student Testing_student Testing_student	Mabait	Grade 7	<a href="#">Edit</a> <a href="#">Delete</a>
Math	Sir Carlos Babaran	10:30 - 12:00	Testing_student_part_two Testing_student_part_two Testing_student_part_two	Mabait	Grade 7	<a href="#">Edit</a> <a href="#">Delete</a>
Science	Sir Carlos Babaran	12:00 - 1:00	Testing_student_part_two Testing_student_part_two Testing_student_part_two	Mabait	Grade 8	<a href="#">Edit</a> <a href="#">Delete</a>

Showing 1 to 4 of 4 entries | Previous 1 Next

localhost/tugscie/classes/manage\_classes

5:57 PM 26/11/2019

Figure 3



## Manage your Content

In this user interface, the admin can view, edit and delete the contents that have been uploaded.

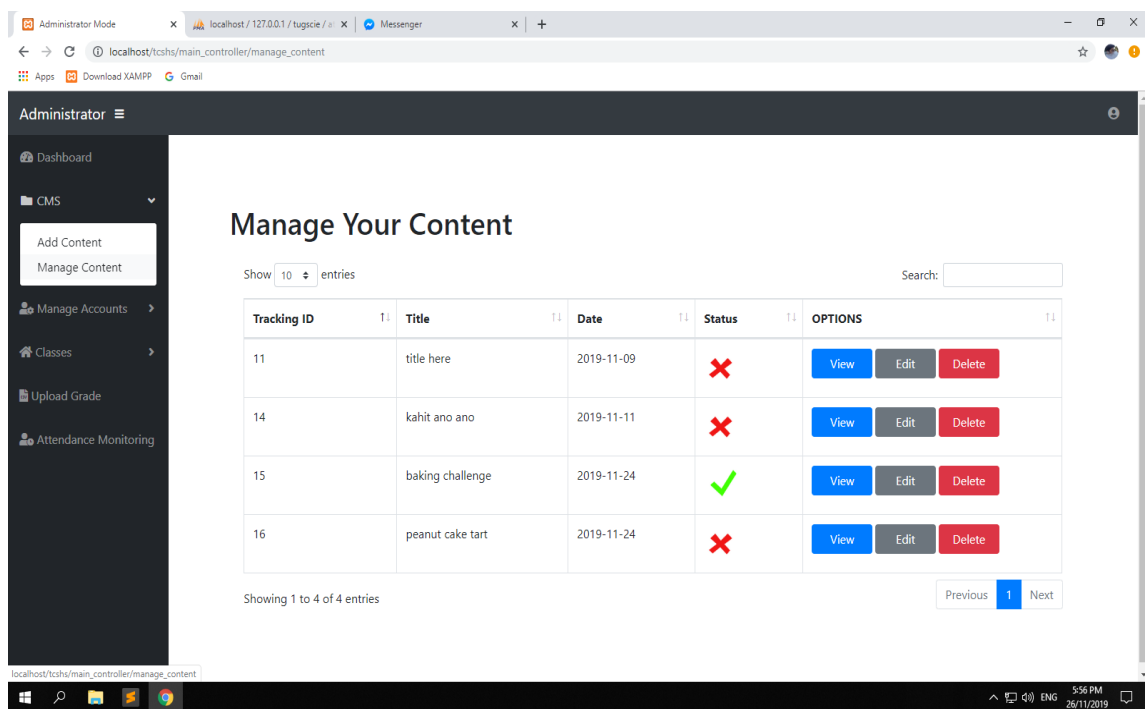


Figure 4



## Add Class

In this user interface, you can add student's subject, assign a teacher, and enter a schedule.

Figure 5



## Manage Subjects

In this user interface, the teacher can add, edit and delete the subjects that they are managing.

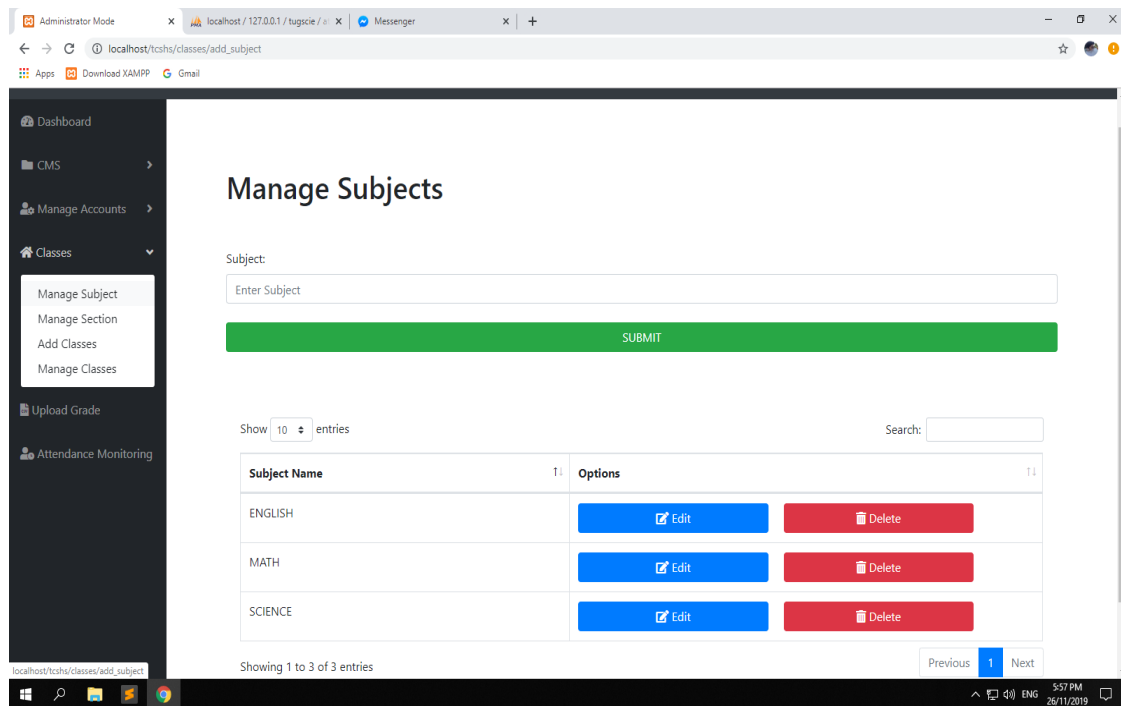


Figure 6





## Register Student

In this user interface, the admin can register a new student account.

The screenshot shows a web browser window with the URL `localhost/tchsh/Manage_user/register`. The page title is "Register Student". On the left, there is a dark sidebar menu with the following items: "Dashboard", "CMS", "Manage Accounts" (expanded), "Classes", "Upload Grade", and "Attendance Monitoring". Under "Manage Accounts", there are two sub-items: "Register Account" (highlighted) and "View Account". The main content area contains the registration form with the following fields: "Upload Image:" with a "Browse" button, "Username", "Password", "First Name", "Middle Name", "Last Name", and "Grade". The browser's address bar shows the URL, and the Windows taskbar at the bottom indicates the time is 5:56 PM on 25/11/2019.

Figure 7



## Student Status

In this user interface, the teacher can view and update the student's status in terms of their attendance.

The screenshot shows a web browser window with the URL `localhost/127.0.0.1/tugsie/...`. The page is titled "Student Status" and is part of an "Administrator Mode" interface. On the left, there is a sidebar menu with options: Dashboard, CMS, Manage Accounts, Classes, Upload Grade, and Attendance Monitoring. The main content area contains three dropdown menus for "Grade:", "Section:", and "Subject:", each with a "Select" option. Below these menus are two buttons: "Proceed" (blue) and "CANCEL" (grey). The Windows taskbar at the bottom shows the time as 5:50 PM on 26/11/2019.

Figure 8



## Manage Sections

In this user interface, the teacher can create a section. The teacher can also edit and delete a section.

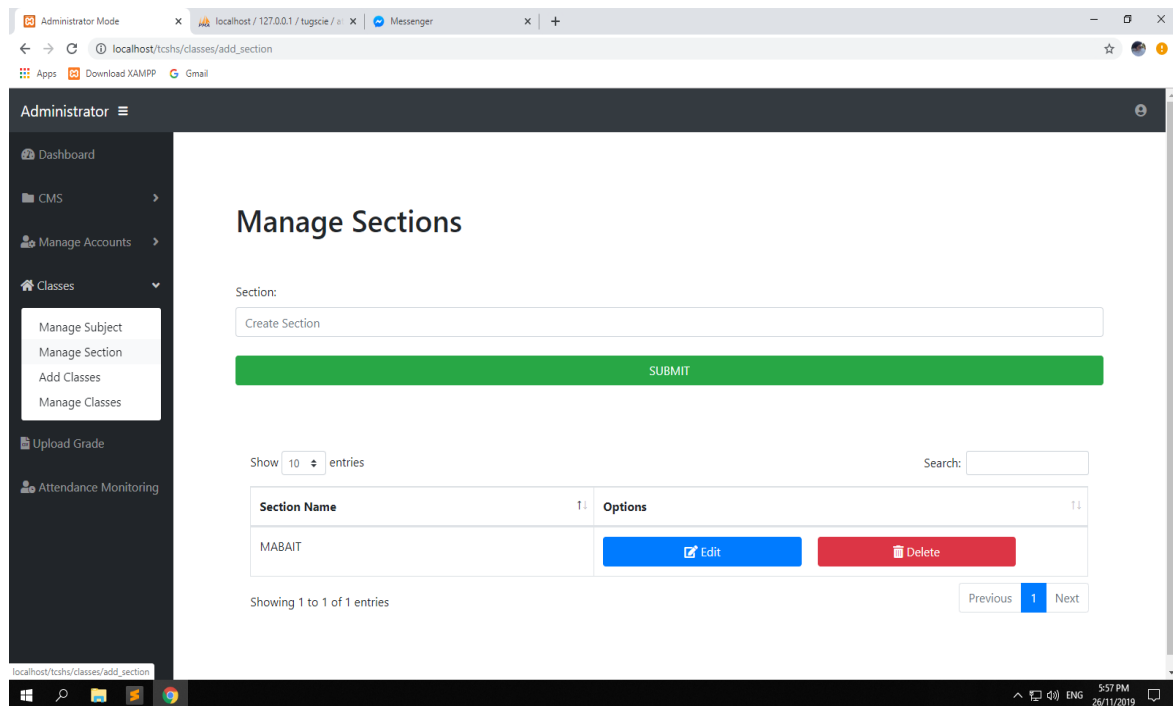


Figure 9



## Classroom Attendance

In this user interface, the teacher can record student's attendance. The teacher can also view the number of absences of the students. The teacher can also excuse a student if the student has reasonable reason.

Administrator

Dashboard

CMS

Manage Accounts

Classes

Upload Grade

Attendance Monitoring

### Classroom Attendance

Show 10 entries Search:

Student Name	No. of Absences	Select Absent Student	Excuse
Elisa Mendoza Bacud	1	<input type="checkbox"/>	Excuse
Joel John Centeno	3	<input type="checkbox"/>	Excuse
Rafael Miguel Ibanez	3	<input type="checkbox"/>	Excuse

Showing 1 to 3 of 3 entries

Previous 1 Next

Mark as Absent

Activate Windows  
Go to PC settings to activate Windows.

Figure 10



## **Chapter 4**

### **SUMMARY OF FINDINGS, CONCLUSION AND RECOMMENDATION**

#### **Summary of Findings**

The summary of findings were based from the statement of the problem.

There are many benefits that we can get from the proposed system. The system will help the school for making a good first impression as it often is the first contact that people have with the school. The website will deliver a good user experience for its regular users, including teachers, student and parents. And the students can access their grades online and the parents can monitor their children's attendance online.

The study lessens the delay of processing of data. It also access data fast in terms of emergencies and some unpredictable circumstances. It also helps the school to announce important events easily through the website.

Through the proposed system, there will be a security of data because each faculty will be having an account. Students will also be given an account to access their



grades online. Unauthorized person cannot access the system.

The proposed system is effective enough to lessen the work load of teachers.

### **CONCLUSIONS**

After all the views of studies, identification and analysis of the problems of the study conducted in the Tuguegarao Science High School regarding the manual processing, the Researchers therefore conclude that using the website with student portal is effective and more convenient to use in terms of announcing important events and accessing grades. It also helps the parents to monitor their children's attendance and academic status. It also help to secure some important data, compared to the manual and it is faster and easier to use and it saves time and effort.



## **RECOMMENDATIONS**

The researchers therefore recommend that the proposed Tuguegarao Science High School Website with Student Portal will be utilized and implemented to improve accuracy of the school in giving important information and to lessen delays of submission of grades and to lessen a little bit the work load of teachers.



## Appendices

### Pre- Survey Questionnaire Sample

#### SURVEY QUESTIONNAIRE

**Type of Evaluator:**    ☐ System User        ☐ IT Expert

**Direction:**        Please indicate your assessment as to the extent of compliance of the system to the ISO/IEC 9126 requirements in terms of the system's Functionality, Reliability, Usability, Efficiency, Maintainability and Portability. Please put a check (√) mark in the appropriate space using the following scale.

5 = Very Great Extent

4 = Great Extent

3 = Moderate Extent

2 = Low Extent

1 = Very Low Extent





Quality Criteria of System based on ISO 9126-1		Level of Agreement				
A. Functionality (S) Suitability - Can the system perform the tasks assigned? (A) Accuracy - Can the system produce expected results? (I) Interoperability - Can the system interact with other system? (S) Security Access - Is the system equipped with acceptable security measure?						
No.	Attributes	5	4	3	2	1
1	Does what is appropriate(S)	/				
2	All of the functionality required for its execution is available(S)		/			
3	Does what was proposed correctly(A)	/				
4	Is accurate in performing its functions(A)		/			
5	Results are accurate / conforms to expectation (A)		/			
6	Interacts with the specified modules(I)	/				
7	Can be operated by several users at the same time (multiuser) (I)					
8	Can operate with other system (I)		/			
9	Is file protected (SA)		/			
10	Has an internal backup routine or function (SA)			/		
11	Has an internal restore routine or function(SA)			/		



<b>B. Reliability</b> <b>(M)</b> Maturity - Can most of faults be eliminated over time? <b>(F)</b> Fault Tolerance - Can the system handle errors? <b>(R)</b> Recoverability - Can the system resume working and restore data?		Level of Agreement				
No.	Attributes	5	4	3	2	1
1	Has few failures / reliable in operation <b>(M)</b>		/			
2	Reacts appropriately when failures occur <b>(F)</b>		/			
3	Informs users concerning invalid data entry <b>(F)</b>			/		
4	Is capable of recovering data in the event of failure <b>(R)</b>		/			

<b>C. Usability</b> <b>(U)</b> Understandability - Can the system be understood easily? <b>(L)</b> Learnability - Can the system be learnt easily? <b>(O)</b> Operability - Can the system be operated with minimal effort?		Level of Agreement				
No.	Attributes	5	4	3	2	1
1	Easy to understand the concept and application <b>(U)</b>	/				
2	Easy to perform its functions <b>(U)</b>	/				
3	Easy to learn how to use <b>(L)</b>	/				
4	Facilitates the users' data entry <b>(L)</b>	/				
5	Facilitates the users' retrieval of data <b>(L)</b>	/				
6	Easy to operate and control <b>(O)</b>	/				
7	Help is provided in a manner that is easily understood <b>(O)</b>	/				



### D. Efficiency

(T) Time Behavior - Does the system behave in a timely manner?

(R) Resource Behavior – Does the system perform in a resource manner?

### Level of Agreement

No.	Attributes	5	4	3	2	1
1	Response time is appropriate (T)	/				
2	Execution time is appropriate (T)	/				
3	Resources needed are appropriate (R)	/				

### E. Maintainability

(A) Analyzability – Can the system be troubleshooted easily?

(C) Changeability – Is the system easy to modify or adapt to user needs?

(S) Stability – Is the system negatively impacted by system changed?

(T) Testability – Can the operation of the system be tested and verified?

### Level of Agreement

No.	Attributes	5	4	3	2	1
1	Easy to diagnose the failure when it occurs (A)	/				
2	Easy to modify and adapt (C)	/				
3	Changes do not seriously impact the system (S)	/				
4	Changes are easy to test (T)	/				



### F. Portability

(A) Adaptability - Can the system be adapted easily?

(I) Installability - Can system be installed easily?

(C) Co-existence - Can the system work with existing system?

(R) Replaceability - Can the system be replaced with similar product?

### Level of Agreement

No.	Attributes	5	4	3	2	1
1	Easy to adapt to other environments (A)		/			
2	Easy to install in other environments (I)	/				
3	It is in agreement with portability standards (C)		/			
4	Easily used to replace the functions of another program or system (R)		/			



### **PART III. System as Evaluated by the I.T. Experts**

**Direction:** Please put a check (✓) mark in the appropriate space using the following scale.

- 5 = Accepted Unconditionally
- 4 = Accepted with minor condition
- 3 = Fair
- 2 = Accepted with major condition
- 1 = Reject



Performance Criteria	5	4	3	2	1
1. Executes and processes at significantly higher speed compared to the old system.		/			
2. There is little or no delay encountered in accessing the system's functions.		/			
3. The system is demonstrably effective with the intended audience, including people of varying abilities and experiences		/			
4. Information generated by the system can easily be read and understood.		/			
5. The functions of the on-screen buttons/controls and navigation icons are easily identified.	/				
6. The interface design is simple, tasteful and not flooded with distracting images and text.		/			
7. The system uses standard equipment that is reliable, widely available, and applicable to a variety of uses	/				
8. The program is visually attractive and interesting. It motivates users to continue using the program		/			
9. The organization of the system is clear, logical, and effective, making it easy for the intended audience to understand.		/			
10. The buttons, icons and dropdown menu are responsive.		/			
11. The visual aspect of the application (user interface) is consistent across different platforms or computer systems.		/			
12. Text, images and the colors of the user interface is appropriate and relevant.		/			
13. Complete functionality is provided which enables the quick and accurate access to information.		/			
14. The language in the program and in the user's guide is clear and easily understood to the intended audience.	/				
15. Printouts are clear, well- organized and dated.		/			
16. The purpose of the system is well defined and clearly explained to the user.		/			
17. The system acknowledges input. Feedback on user responses is employed effectively		/			
18. The system is reliable and error-free in normal use.		/			
19. The user can operate the system independently, creating his or her own sequence of presentation and review		/			
20. The system achieves its purpose.		/			

This image shows a blank sheet of white paper designed for handwriting practice. It features ten horizontal blue ruling lines spaced evenly down the page. A single dashed vertical line runs parallel to the left edge, creating a narrow margin. The bottom-left corner of the page has a small rectangular tab cut out.



IT Experts' Assessment Survey Sample Questionnaire

Quality Criteria of System based on ISO 9126-1		Level of Agreement				
A. Functionality						
(S) Suitability - Can the system perform the tasks assigned?						
(A) Accuracy - Can the system produce expected results?						
(I) Interoperability - Can the system interact with other system?						
(S) Security Access - Is the system equipped with acceptable security measure?						
No.	Attributes	5	4	3	2	1
1	Does what is appropriate(S)		/			
2	All of the functionality required for its execution is available(S)		/			
3	Does what was proposed correctly(A)	/				
4	Is accurate in performing its functions(A)		/			
5	Results are accurate / conforms to expectation (A)	/				
6	Interacts with the specified modules(I)		/			
7	Can be operated by several users at the same time (multiuser) (I)					
8	Can operate with other system (I)		/			
9	Is file protected (SA)		/			
10	Has an internal backup routine or function (SA)		/			
11	Has an internal restore routine or function(SA)		/			





B. Reliability		Level of Agreement				
(M) Maturity - Can most of faults be eliminated over time?						
(F) Fault Tolerance - Can the system handle errors?						
(R) Recoverability - Can the system resume working and restore data?						
No.	Attributes	5	4	3	2	1
1	Has few failures / reliable in operation(M)		/			
2	Reacts appropriately when failures occur (F)		/			
3	Informs users concerning invalid data entry (F)			/		
4	Is capable of recovering data in the event of failure (R)		/			

C. Usability		Level of Agreement				
(U) Understandability - Can the system be understood easily?						
(L) Learnability - Can the system be learnt easily?						
(O) Operability - Can the system be operated with minimal effort?						
No.	Attributes	5	4	3	2	1
1	Easy to understand the concept and application (U)		/			
2	Easy to perform its functions (U)	/				
3	Easy to learn how to use (L)		/			
4	Facilitates the users' data entry (L)		/			
5	Facilitates the users' retrieval of data (L)	/				
6	Easy to operate and control (O)	/				
7	Help is provided in a manner that is easily understood(O)		/			



#### **D. Efficiency**

(T) Time Behavior - Does the system behave in a timely manner?

(R) Resource Behavior – Does the system perform in a resource manner?

#### **Level of Agreement**

No.	Attributes	5	4	3	2	1
1	Response time is appropriate (T)		/			
2	Execution time is appropriate (T)	/				
3	Resources needed are appropriate (R)	/				

#### **E. Maintainability**

(A) Analyzability – Can the system be troubleshooted easily?

(C) Changeability – Is the system easy to modify or adapt to user needs?

(S) Stability – Is the system negatively impacted by system changed?

(T) Testability – Can the operation of the system be tested and verified?

#### **Level of Agreement**

No.	Attributes	5	4	3	2	1
1	Easy to diagnose the failure when it occurs (A)	/				
2	Easy to modify and adapt (C)		/			
3	Changes do not seriously impact the system (S)		/			
4	Changes are easy to test (T)	/				



### F. Portability

(A) Adaptability - Can the system be adapted easily?

(I) Installability - Can system be installed easily?

(C) Co-existence - Can the system work with existing system?

(R) Replaceability - Can the system be replaced with similar product?

### Level of Agreement

No.	Attributes	5	4	3	2	1
1	Easy to adapt to other environments (A)		/			
2	Easy to install in other environments (I)	/				
3	It is in agreement with portability standards (C)	/				
4	Easily used to replace the functions of another program or system (R)		/			



### **PART III. System as Evaluated by the I.T. Experts**

**Direction:** Please put a check (✓) mark in the appropriate space using the following scale.

- |   |   |                               |
|---|---|-------------------------------|
| 5 | = | Accepted Unconditionally      |
| 4 | = | Accepted with minor condition |
| 3 | = | Fair                          |
| 2 | = | Accepted with major condition |
| 1 | = | Reject                        |



Performance Criteria	5	4	3	2	1
21. Executes and processes at significantly higher speed compared to the old system.	/				
22. There is little or no delay encountered in accessing the system's functions.	/				
23. The system is demonstrably effective with the intended audience, including people of varying abilities and experiences		/			
24. Information generated by the system can easily be read and understood.		/			
25. The functions of the on-screen buttons/controls and navigation icons are easily identified.	/				
26. The interface design is simple, tasteful and not flooded with distracting images and text.		/			
27. The system uses standard equipment that is reliable, widely available, and applicable to a variety of uses	/				
28. The program is visually attractive and interesting. It motivates users to continue using the program	/				
29. The organization of the system is clear, logical, and effective, making it easy for the intended audience to understand.		/			
30. The buttons, icons and dropdown menu are responsive.	/				
31. The visual aspect of the application (user interface) is consistent across different platforms or computer systems.		/			
32. Text, images and the colors of the user interface is appropriate and relevant.	/				
33. Complete functionality is provided which enables the quick and accurate access to information.		/			
34. The language in the program and in the user's guide is clear and easily understood to the intended audience.	/				
35. Printouts are clear, well- organized and dated.		/			
36. The purpose of the system is well defined and clearly explained to the user.		/			
37. The system acknowledges input. Feedback on user responses is employed effectively	/				
38. The system is reliable and error-free in normal use.		/			
39. The user can operate the system independently, creating his or her own sequence of presentation and review		/			
40. The system achieves its purpose.	/				

[illegible]



## Source Code

Main.php

```
<?php
```

```
defined('BASEPATH') OR exit('No direct script access  
allowed');
```

```
class Main extends CI_Controller {
```

```
    function __construct()
```

```
{
```

```
        parent::__construct();
```

```
        $this->load->model('Main_model');
```

```
}
```

```
    public function index()
```



```
{

    $this->form_validation-
>set_rules('username','Username','required');

    $this->form_validation-
>set_rules('password','Password','required');

    if ($this->form_validation->run()) {

        $data['username'] = $this->input-
>post('username');

        $data['password'] = $this->input-
>post('password');

        $users_table = $this->Main_model-
>multiple_where('users', $data);

        if (count($users_table->result_array()) > 0)
    {
```





```
        foreach ($users_table->result_array()
as $row) {

            $account_id = $row['id'];

        }

        $this->session-
>set_userdata('account_id',$account_id);

        redirect('main/teachers_view');

    }else{

        $this->session-
>set_userdata('invalidAccount',1);

        redirect('main');

    }

    $this->load->view('login');

}

function register()

{
```



```
$this->form_validation-  
>set_rules('username','Username','required');  
  
$this->form_validation-  
>set_rules('password','Password','required');  
  
$this->form_validation-  
>set_rules('firstname','Firstname','required');  
  
$this->form_validation-  
>set_rules('middlename','Middlename','required');  
  
$this->form_validation-  
>set_rules('lastname','Lastname','required');  
  
  
if ($this->form_validation->run()) {  
  
    $data['username'] = $this->input-  
>post('username');  
  
    $data['password'] = $this->input-  
>post('password');  
  
    $data['firstname'] = $this->input-  
>post('firstname');
```



```
        $data['middlename'] = $this->input-  
>post('middlename');  
  
        $data['lastname'] = $this->input-  
>post('lastname');  
  
        $this->Main_model->_insert('users', $data);  
  
        $this->session-  
>set_userdata('accountCreated',1);  
  
        redirect('Main');  
  
    }  
  
    $this->load->view('register');  
  
}  
  
function addTeacher()  
{
```



```
$this->form_validation-  
>set_rules('firstname','Firstname','required');  
  
$this->form_validation-  
>set_rules('middlename','Middlename','required');  
  
$this->form_validation-  
>set_rules('lastname','Lastname','required');  
  
if ($this->form_validation->run()) {  
  
    $data['firstname'] = $this->input-  
>post('firstname');  
  
    $data['middlename'] = $this->input-  
>post('middlename');  
  
    $data['lastname'] = $this->input-  
>post('lastname');  
  
    $this->Main_model->_insert('teachers',  
$data);  
  
    $this->session->set_userdata('teacherAdd',  
1);  
  
    redirect('main/addTeacher');
```



```
        }else{

            $this->load->view('includes/header');

            $this->load->view('manage_teachers/addTeachers');

            $this->load->view('includes/footer');

        }

    }

    function add_subject()

    {

        $facultyId = $this->uri->segment(3);

        $this->form_validation-
>set_rules('course_code','Course code','required');

        $this->form_validation-
>set_rules('course_title','Course title','required');

        $this->form_validation-
>set_rules('noPapers','Number of Papers','required');
```



```
if ($this->form_validation->run()) {  
  
    $id = $this->uri->segment(3);  
  
    $data['course_code'] = $this->input->  
>post('course_code');  
  
    $data['course_title'] = $this->input->  
>post('course_title');  
  
    $data['teacher_id'] = $id;  
  
    $data['no_paper'] = $this->input->  
>post('noPapers');  
  
    $this->Main_model->_insert('subject',  
$data);  
  
    $this->session->set_userdata('subjectAdded',  
1);  
  
    redirect('main/add_subject/' . $facultyId);  
  
}else{
```



```
        $data['facultyId'] = $facultyId;

        $this->load->view('includes/header');

        $this->load-
>view('manage_teachers/add_subject',$data);

        $this->load->view('includes/footer');

    }

}

function teachers_view()

{

    $teacherTable = $this->Main_model-
>just_get_everything('teachers');

    $data['records'] = $teacherTable;

    $this->load->view('includes/header');

    $this->load-
>view('manage_teachers/teachers_view',$data);

    $this->load->view('includes/footer');

}
```



```
function logout()

{

    session_destroy();

    redirect('main');

}

function view_teacher()

{

    $facultyId = $this->uri->segment(3);

    if (isset($_GET['subjectId'])) {

        $subjectId = $this->input-
>get('subjectId');// kinuha ko yung subject id

        $subjectTable = $this->Main_model-
>get_where('subject','id', $subjectId);

        foreach ($subjectTable->result_array() as
$row) {

            $teacherId = $row['teacher_id'];

        }

    }

}
```





```
$teacherTable = $this->Main_model-  
>get_where('subject','teacher_id', $teacherId);  
  
$facultyId = $teacherId;  
  
}else{  
  
$teacherTable = $this->Main_model-  
>get_where('subject','teacher_id', $facultyId);  
  
}  
  
  
// $this->Main_model-  
>array_show($teacherTable);// para makita yung table  
  
$data['records'] = $teacherTable;  
  
$data['facultyId'] = $facultyId;  
  
$this->load->view('includes/header');  
  
$this->load-  
>view('manage_teachers/view_teacher',$data);  
  
$this->load->view('includes/footer');
```



```
}

function edit_teacher()

{

    $facultyId = $this->uri->segment(3);

    $teacherTable = $this->Main_model-
>get_where('teachers','id', $facultyId);

    foreach ($teacherTable->result_array() as $row )
    {

        $firstname = $row['firstname'];

        $middlename = $row['middlename'];

        $lastname = $row['lastname'];

    }

    $data['firstname'] =$firstname;

    $data['middlename'] =$middlename;

    $data['lastname'] =$lastname;

    $data['records'] = $teacherTable;

    $data['facultyId'] = $facultyId;

    $this->load->view('includes/header');
```



```
$this->load->view('manage_teachers/edit_teacher',$data);

$this->load->view('includes/footer');

$this->form_validation->set_rules('firstname','Firstname','required');

$this->form_validation->set_rules('middlename','Middlename','required');

$this->form_validation->set_rules('lastname','Lastname','required');

if ($this->form_validation->run()) {

    $facultyId = $this->uri->segment(3);

    $datum['firstname'] = $this->input->post('firstname');

    $datum['middlename'] = $this->input->post('middlename');

    $datum['lastname'] = $this->input->post('lastname');
```



```
        $this->Main_model->_update('teachers', 'id',  
$facultyId, $datum);  
  
        $this->session->  
>set_userdata('updateSuccess',1);  
  
        redirect('main/teachers_view');  
  
        // echo $facultyId;  
  
    }  
  
}  
  
function edit_subject()  
{  
  
    $subjectId = $this->uri->segment(3);  
  
    $subjectTable = $this->Main_model->  
>get_where('subject','id', $subjectId);
```



```
foreach ($subjectTable->result_array() as $row )
{

    $course_code = $row['course_code'];

    $course_title = $row['course_title'];

    $no_papers = $row['no_paper'];

}

$data['course_code'] =$course_code;

$data['course_title'] =$course_title;

$data['no_paper'] =$no_papers;

$data['records'] = $subjectTable;

$data['subjectId'] = $subjectId;

$this->load->view('includes/header');

$this->load-
>view('manage_teachers/edit_subject',$data);

$this->load->view('includes/footer');

$this->form_validation-
>set_rules('course_code','Course Code','required');
```



```
$this->form_validation-  
>set_rules('course_title','Course Title','required');  
  
$this->form_validation-  
>set_rules('no_paper','Number of paper','required');  
  
if ($this->form_validation->run()) {  
  
    $subjectId = $this->uri->segment(3);  
  
    $datum['course_code'] = $this->input-  
>post('course_code');  
  
    $datum['course_title'] = $this->input-  
>post('course_title');  
  
    $datum['no_paper'] = $this->input-  
>post('no_paper');  
  
    $this->Main_model->_update('subject', 'id',  
$subjectId, $datum);  
  
    $this->session-  
>set_userdata('updateSuccess',1);  
  
    redirect('main/view_teacher?subjectId=' .  
$subjectId);  
  
}
```



```
}

function delete_teacher()

{

    $faculty_id = $this->uri->segment(3);

    if (isset($_GET['confirm'])) {

        $faculty_id = $this->input->get('confirm');

        $this->Main_model->_delete('teachers', 'id',
$faculty_id);

        $this->session->set_userdata('kahitAno',1);

        redirect('main/teachers_view');

    }else{
```



```
$data['teacherTable'] = $this->Main_model->get_where('teachers','id', $faculty_id);

$this->load->view('includes/header');

$this->load->view('manage_teachers/delete_teacher',$data);

$this->load->view('includes/footer');

}

}

function delete_subject()

{

$subjectId = $this->uri->segment(3);

if (isset($_GET['confirm'])) {
```





```
$subjectId = $this->input->get('confirm');

$subjectTable = $this->Main_model-
>get_where('subject','id', $subjectId);

foreach ($subjectTable->result_array() as
$row) {

    $teacherId = $row['teacher_id'];

}

$this->Main_model->_delete('subject', 'id',
$subjectId);

$this->session->set_userdata('kahitAno',1);

redirect('main/view_teacher/' . $teacherId);

}else{

    $data['subjectTable'] = $this->Main_model-
>get_where('subject','id', $subjectId);
```



```
        $dts = $this->Main_model-  
>get_where('subject','id', $subjectId);  
  
        foreach ($dts->result_array() as $row) {  
  
            $teacherId = $row['teacher_id'];  
  
        }  
  
        $data['teacherId'] = $teacherId;  
  
        $this->load->view('includes/header');  
  
        $this->load->  
>view('manage_teachers/delete_subject',$data);  
  
        $this->load->view('includes/footer');  
  
    }  
  
}  
  
} //ending class
```



```
Main_model.php
```

```
<?php
```

```
class Main_model extends CI_Model
```

```
{
```

```
function access_granted()
```

```
{
```

```
    if (isset($_SESSION['credentials_id'])) {
```

```
        return 1;
```

```
    }else{
```

```
        return 0;
```

```
    }
```

```
}
```

```
function just_get_everything($table_name)
```



```
{

    $query=$this->db->get($table_name);

    return $query;

}

// ako nag lagay dito


// for extracting table


function get($table_name,$order_by)

{

    $table = $table_name;

    $this->db->order_by($order_by);

    $query=$this->db->get($table_name);

    return $query;

}


function order_by_desc($table_name, $column_name){
```



```
$this->db->order_by($column_name, "desc");

$query = $this->db->get($table_name);

return $query;

}

function get_where_order_by($table,$db_column_name,
$value, $order_by,$column_order_by) {

    order_by($column_order_by, $order_by);

    $this->db->where($db_column_name, $value);

    $query=$this->db->get($table);

    return $query;

}

function get_where_user_pass($table_name, $data)
```



```
{

    $username = $data['username'];

    $password = $data['password'];

    $this->db->where('username', $username);

    $this->db->where('password', $password);

    $result = $this->db->get($table_name);

    return $result->result_array();

}

// pati to

function get_with_limit($limit, $offset, $order_by) {

    $table = $this->get_table();

    $this->db->limit($limit, $offset);

    $this->db->order_by($order_by);

    $query=$this->db->get($table);

    return $query;

}
```



```
function get_where($table,$db_column_name, $value)

{

    $this->db->where($db_column_name, $value);

    $query=$this->db->get($table);

    return $query;

}
```

```
function multiple_where($table_name, $array)

{

    $this->db->where($array);

    $query = $this->db->get($table_name);

    return $query;

}
```



```
}
```

```
function get_where_student($table,$firstname,  
$middlename, $lastname, $fname, $mname, $lname) {
```

```
    $table = $table;
```

```
    $this->db->where($firstname, $fname);
```

```
    $this->db->where($middlename, $mname);
```

```
    $this->db->where($lastname, $lname);
```

```
    $query=$this->db->get($table);
```

```
    return $query;
```

```
}
```

```
function get_where_custom($table, $col, $value) {
```

```
    $table = $table;
```





```
$this->db->where($col, $value);

$query=$this->db->get($table);

return $query;

}

// end of table extraction


// start of database crud

function _insert($table_name, $data)

{

    $table = $table_name;

    $this->db->insert($table, $data);

}


function _update($table_name, $column_id_name, $id,
$data)

{
```



```
$table = $table_name;

$this->db->where($column_id_name, $id);

$this->db->update($table, $data);

}

function _multi_update($table_name, $array, $data)
{
    $this->db->where($array);

    $this->db->update($table_name, $data);
}

function _delete($table, $column_id_name, $id)
{
    $table = $table;

    $this->db->where($column_id_name, $id);

    $this->db->delete($table);

}
```



```
function array_show($array)

{

    echo "<pre>";

    print_r($array->result_array());

    echo "</pre>";

}


function join($first_table, $second_table,
$first_column, $second_column, $where= Null)

{

    $this->db->select('*');

    $this->db->from($first_table);

    $this->db->join($second_table, "$first_column =
$second_column");

    $query = $this->db->get();

    if ($where != NULL) {

        $this->db->where($where);
```



```
}

return $query;

}

function fetch_data($query)

{

    $this->db->like('firstname', $query);

    $query = $this->db->get('student_profile');

    if($query->num_rows() > 0)

    {

        foreach($query->result_array() as $row)

        {

            $output[] = array(

                'name' => $row["firstname"],
```



```
);  
  
}  
  
echo json_encode($output);  
  
}  
  
}  
  
function alert($msg) {  
  
    $this->session->set_userdata('grade_present', $msg);  
  
}  
  
function import_grade()  
  
{  
  
    $this->session->  
>set_userdata('teacher_load_id_selection', $teacher_load_id)  
;  
}
```



```
$this->session-  
>set_userdata('subject_selection',$subject);  
  
$this->session-  
>set_userdata('quarter_selection',$quarter);  
  
$this->session-  
>set_userdata('section_selection',$section_id);  
  
$this->session-  
>set_userdata('school_year_grade_selection',$school_year_grade);  
  
redirect('excel_import/upload_view');  
  
}  
  
function alertSuccess($sessionName, $alertMsg)  
{  
  
    if (isset($_SESSION[$sessionName])) {  
  
        echo "<p class='alert alert-  
success'>$alertMsg</p>";  
  
        unset($_SESSION[$sessionName]);  
  
    }  
}
```



```
}

function alertDanger($sessionName, $alertMsg)

{

    if (isset($_SESSION[$sessionName])) {

        echo "<p class='alert alert-
danger'>$alertMsg</p>";

        unset($_SESSION[$sessionName]);

    }

}

function getFullName($table,$column,$id)

{

    $this->db->where($column, $id);

    $table = $this->db->get($table);

    foreach ($table->result_array() as $row) {

        $firstname = $row['firstname'];
```



```
$middlename = $row['middlename'];

$lastname = $row['lastname'];

}

$fullName = "$firstname $middlename $lastname";

return $fullName;

}

}

Includes

-footer.php

</div>

<!-- /.container-fluid -->
```





```
<!-- Sticky Footer -->

<footer class="sticky-footer">

  <div class="container my-auto">

    <div class="copyright text-center my-auto">

      <span>Copyright © by IBANEZ & CENTENO</span>

    </div>

  </div>

</footer>


</div>

<!-- /.content-wrapper -->


</div>

<!-- /#wrapper -->


<!-- Scroll to Top Button-->
```



```
<a class="scroll-to-top rounded" href="#page-top">

    <i class="fas fa-angle-up"></i>

</a>

<!-- Logout Modal-->

<div class="modal fade" id="logoutModal" tabindex="-1"
role="dialog" aria-labelledby="exampleModalLabel" aria-
hidden="true">

    <div class="modal-dialog" role="document">

        <div class="modal-content">

            <div class="modal-header">

                <h5 class="modal-title"
id="exampleModalLabel">Ready to Leave?</h5>

                <button class="close" type="button" data-
dismiss="modal" aria-label="Close">

                    <span aria-hidden="true">×</span>

                </button>

            </div>
```



```
<div class="modal-body">Select "Logout" below if  
you are ready to end your current session.</div>  
  
<div class="modal-footer">  
  
    <button class="btn btn-secondary" type="button"  
data-dismiss="modal">Cancel</button>  
  
    <?php $logout = base_url() . 'main/logout' ?>  
  
    <a class="btn btn-primary" href="<?= $logout  
?>">Logout</a>  
  
</div>  
  
</div>  
  
</div>  
  
</div>  
  
<!-- Bootstrap core JavaScript-->  
  
<script src="<?= base_url(). 'admin_template/'  
?>vendor/jquery/jquery.min.js"></script>  
  
<script src="<?= base_url(). 'admin_template/'  
?>vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
```



```
<!-- Core plugin JavaScript-->

<script src="<?= base_url(). 'admin_template/'
?>vendor/jquery-easing/jquery.easing.min.js"></script>

<!-- Page level plugin JavaScript-->

<script src="<?= base_url(). 'admin_template/'
?>vendor/datatables/jquery.dataTables.js"></script>

<script src="<?= base_url(). 'admin_template/'
?>vendor/datatables/dataTables.bootstrap4.js"></script>

<!-- Custom scripts for all pages-->

<script src="<?= base_url(). 'admin_template/' ?>js/sb-
admin.min.js"></script>

<!-- Demo scripts for this page-->

<script src="<?= base_url(). 'admin_template/'
?>js/demo/datatables-demo.js"></script>
```



```
</body>
```

```
</html>
```

### **Includes**

```
-header.php
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="utf-8">
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
<meta name="viewport" content="width=device-width,  
initial-scale=1, shrink-to-fit=no">
```

```
<meta name="description" content="">
```



```
<meta name="author" content="">

<title>MANAGE STUDENTS</title>

<!-- Custom fonts for this template-->

<link href="<?= base_url().'admin_template/'
?>vendor/fontawesome-free/css/all.min.css" rel="stylesheet"
type="text/css">

<!-- Page level plugin CSS-->

<link href="<?= base_url().'admin_template/'
?>vendor/datatables/dataTables.bootstrap4.css"
rel="stylesheet">

<!-- Custom styles for this template-->

<link href="<?= base_url().'admin_template/' ?>css/sb-
admin.css" rel="stylesheet">
```



```
</head>
```

```
<body id="page-top">
```

```
<nav class="navbar navbar-expand navbar-dark bg-dark  
static-top">
```

```
<a class="navbar-brand mr-1" href="index.html">Start  
Bootstrap</a>
```

```
<button class="btn btn-link btn-sm text-white order-1  
order-sm-0" id="sidebarToggle" href="#">
```

```
<i class="fas fa-bars"></i>
```

```
</button>
```

```
<!-- Navbar Search -->
```

```
<form class="d-none d-md-inline-block form-inline ml-  
auto mr-0 mr-md-3 my-2 my-md-0">
```



```
</form>
```

```
<!-- Navbar -->
```

```
<ul class="navbar-nav ml-auto ml-md-0">
```

```
<li class="nav-item dropdown no-arrow">
```

```
<a class="nav-link dropdown-toggle" href="#"
id="userDropdown" role="button" data-toggle="dropdown"
aria-haspopup="true" aria-expanded="false">
```

```
<i class="fas fa-user-circle fa-fw"></i>
```

```
</a>
```

```
<div class="dropdown-menu dropdown-menu-right"
aria-labelledby="userDropdown">
```

```
<a class="dropdown-item" href="#">Settings</a>
```

```
<a class="dropdown-item" href="#">Activity
```

```
Log</a>
```

```
<div class="dropdown-divider"></div>
```





```
<a class="dropdown-item" href="#" data-
toggle="modal" data-target="#logoutModal">Logout</a>

</div>

</li>

</ul>

</nav>

<div id="wrapper">

<!-- Sidebar -->

<ul class="sidebar navbar-nav">

<li class="nav-item dropdown">

<a class="nav-link dropdown-toggle" href="#"
id="pagesDropdown" role="button" data-toggle="dropdown"
aria-haspopup="true" aria-expanded="false">

<i class="fas fa-users"></i>

<span>teachers</span>
```



```
</a>

<?php

$view_teacher = base_url() . 'main/teachers_view/';

$addTeacher = base_url() . 'main/addTeacher';

?>

<div class="dropdown-menu" aria-
labelledby="pagesDropdown">

    <h6 class="dropdown-header">Login Screens:</h6>

    <a class="dropdown-item" href="<?= $view_teacher
?>">View teachers</a>

    <a class="dropdown-item" href="<?= $addTeacher
?>">Add teacher</a>

</div>

</li>

</ul>

<div id="content-wrapper">
```



```
<div class="container-fluid">
```

```
<!-- <ol class="breadcrumb">
```

```
<li class="breadcrumb-item">
```

```
<a href="index.html">Dashboard</a>
```

```
</li>
```

```
<li class="breadcrumb-item active">Blank
```

```
Page</li>
```

```
</ol> -->
```

## Manage\_teahers

```
-add_subject.php
```

```
<div class ="container">
```

```
<div style ="margin-bottom: 40px;"></div>
```

```
<h1>Add Subject</h1>
```



```
<?php $url = base_url()."main/add_subject/" .  
$facultyId?>  
  
<?= validation_errors("<p class='alert alert-  
danger'>")    ?>  
  
<?php  
  
    if (isset($_SESSION['subjectAdded'])) {  
  
        echo "<p class='alert alert-success'>Subject  
added successfully</p>";  
  
        unset($_SESSION['subjectAdded']);  
  
    }  
  
?>  
  
<form action="<?= $url ?>"method="post">  
  
    <div class ="form-group">  
  
        <label >Course Code</label>  
  
        <input type="text" name="course_code"  
placeholder="course code" class="form-control"  
autocomplete="off" autofocus="on">
```



```
</div>

<div class ="form-group">

    <label >Course Title</label>

    <input type="text" name="course_title"
placeholder="course Title" class="form-control"
autocomplete="off">

</div>

<div class ="form-group">

    <label >Number of Papers</label>

    <input  type="text" name="noPapers"
placeholder="Number of papers" class="form-control"
autocomplete='off'>

</div>

<input type="Submit" class="btn btn-primary col-
md-12">
```



```
</form>
```

```
<div style="margin-bottom: 10px;"></div>
```

```
<?php $back = base_url() .
```

```
"main/view_teacher/$facultyId" ?>
```

```
<a href="<?= $back ?>">
```

```
<button class="btn btn-  
secondary col-md-12">Back</button>
```

```
</a>
```

```
</div>
```

```
</div>
```

```
<div>
```

**Manage\_teachers.php**

-addTeachers.php

```
<body>
```



```
<div class="container">

    <div style="margin-bottom:
40px;"></div>

    <h1>Add Teacher</h1>

    <?php $url =
base_url()."main/addTeachers"?>

    <?= validation_errors("<p
class='alert alert-danger'>") ?>

    <?php
        if
(isset($_SESSION['teacherAdd'])) {

            echo "<p
class='alert alert-success'>Subject added successfully</p>";

            unset($_SESSION['teacherAdd']);

        }
```



```
?>

<?php $form =
base_url() . 'main/addTeacher' ?>

<form action="<?= $form
?>" method="post">

    <div class="form-group">

        <label>First
Name</label>

        <input type="text"
name="firstname" placeholder=" Enter your First Name "
class="form-control" autocomplete="off" autofocus="on">

    </div>

    <div class="form-
group">

        <label>Middle
Name</label>

        <input type="text"
name="middlename" placeholder="Enter your Middle Name"
class="form-control" autocomplete="off" autofocus="on">
```





```
</div>

<div class="form-
group">

    <label>Last
Name</label>

    <input type="text"
name="lastname" placeholder="Enter your Last Name"
class="form-control" autocomplete="off" autofocus="on">

</div>

<input type="submit"
name="submit" class="btn btn-primary col-md-12">

</form>

<div style="margin-bottom:
10px;"></div>

<div>
```



```
<?php $back = base_url() .  
  
'main/teachers_view/' ?>  
  
    <a href="<?= $back  
  
?>"><button class="btn btn-secondary col-md-  
12">Back</button></a>  
  
    </div>
```

```
</div>
```

**Manage\_teachers.php**

-delete\_subject.php

```
<?php
```



```
foreach ($subjectTable->result_array() as $row) {

    $course_id = $row['id'];

    $course_code = $row['course_code'];

    $course_title = $row['course_title'];

}

$course_code = "$course_code";

$course_title = "$course_title";

$delete_record = base_url() .
'main/delete_subject?confirm=' . $course_id ;

$cancel = base_url() . 'main/view_teacher/' . $teacherId;

?>

<div class="container">
```



```
<div class="alert alert-warning">

    <strong>DELETE SUBJECT</strong><br><br>

    Are You Sure you want to delete subject: <strong>
<?= ucfirst($course_code) ?> <?= ucfirst($course_title) ?>
</strong>

    <br><br>

    <a href="<?= $delete_record ?>" class="btn btn-
danger">DELETE</a>

    &nbsp;

    <a href="<?= $cancel?>" class="btn btn-
secondary">CANCEL</a>

</div>

</div>

Manage_teachers.php

-delete_teacher.php

<?php
```



```
foreach ($teacherTable->result_array() as $row) {

    $faculty_id = $row['id'];

    $faculty_firstname = $row['firstname'];

    $faculty_middlename = $row['middlename'];

    $faculty_lastname = $row['lastname'];

}

$facultyFullname = "$faculty_firstname $faculty_middlename
$faculty_lastname";

$delete_record = base_url() .

'main/delete_teacher?confirm=' . $faculty_id;

$cancel = base_url() . 'main/teachers_view/';

?>
```



```
<div class="container">
```

```
<div class="alert alert-warning">
```

```
<strong>DELETE TEACHER</strong><br><br>
```

```
Are You Sure you want to delete this teacher:
```

```
<strong> <?= ucfirst($facultyFullname) ?> </strong>
```

```
<br><br>
```

```
<a href="<?= $delete_record ?>" class="btn btn-  
danger">DELETE</a>
```

```
&nbsp;
```

```
<a href="<?= $cancel?>" class="btn btn-  
secondary">CANCEL</a>
```

```
</div>
```

```
</div>
```

**Manage\_teacher.php**



```
-edit_subject

<div class ="container">

    <div style ="margin-bottom: 40px;"></div>

    <h1>Edit Subject</h1>

    <?php $url = base_url()."main/edit_subject/" .
$subjectId?>

    <?= validation_errors("<p class='alert alert-
danger'>")    ?>

    <?php $form = base_url() . 'main/edit_subject/' .
$subjectId?>


    <form action="<?= $url ?>"method="post">

        <div class ="form-group">

            <label >Course Code</label>
```



```
<input value="<?=$course_code ?>"
type="text" name="Enter course_code" placeholder="course
code" class="form-control">

</div>

<div class ="form-group">

    <label >Course Title</label>

    <input value="<?= $course_title ?>"
type="text" name=" Enter course_title" placeholder="course
Title" class="form-control">

</div><div class ="form-group">

    <label >Numbers of paper</label>

    <input value="<?= $no_paper ?>" type="text"
name="no_paper" placeholder="Enter new nu ber of papers"
class="form-control">

</div>
```





```
<input type="Submit" class="btn btn-primary col-  
md-12">
```

```
<div style="margin-bottom: 10px;"></div>
```

```
</form>
```

```
<?php $back = base_url() .
```

```
"main/view_teacher?subjectId=$subjectId" ?>
```

```
<a href="<?= $back ?>">
```

```
<button class="btn btn-  
secondary col-md-12">Back</button>
```

```
</a>
```

```
</div>
```

```
</div>
```

```
<div>
```

**Manage\_teacher.php**

```
-edit_teacher.php
```

```
<body>
```



```
<div class="container">

    <div style="margin-bottom:
40px;"></div>

    <h1>EditTeacher</h1>

    <?php $url =
base_url()."main/edit_teacher"?>

    <?= validation_errors("<p
class='alert alert-danger'>") ?>

    <?php $form = base_url() .
'main/edit_teacher/' . $facultyId?>

    <form action="<?= $form ?>"
method="post">

        <div class="form-group">

            <label>First
Name</label>
```



```
<input value="<?=$firstname ?>" type="text" name="firstname" placeholder="
Enter your First Name " class="form-control">

</div>

<div class="form-group">

<label>Middle
Name</label>

<input value="<?=$middlename ?>" type="text" name="middlename"
placeholder="Enter your Middle Name" class="form-control">

</div>

<div class="form-group">

<label>Last
Name</label>

<input value="<?=$lastname ?>" type="text" name="lastname"
placeholder="Enter your Last Name" class="form-control">

</div>
```



```
<input type="submit"
name="submit" class="btn btn-primary">

</form>

<div>

<?php $back = base_url() .
'main/teachers_view/' ?>

<a href="<?= $back ?>">Back</a>

</div>

</div>

Manage_teacher.php

-teachers_view
```



```
<h1>Manage Teachers</h1>

<div style="margin-bottom: 40px;"></div>

<?php $add_teacher = base_url() . "main/addTeacher/"?>

<a href="<?= $add_teacher ?>">

    <button class="btn btn-primary col-md-12">ADD
TEACHER</button>

</a>

<?php

    $this->load->model('Main_model');

    $this->Main_model->alertSuccess('kahitAno', "Delete
Successfully");

    $this->Main_model-
>alertSuccess('updateSuccess', 'Update Success');

?>

<div class="card-body">

    <div class="table-responsive">
```



```
<table class="table table-bordered"
id="dataTable" width="100%" cellspacing="0">

    <thead>

        <tr>

            <th> First name </th>

            <th> Middle name </th>

            <th> Last name </th>

            <th> OPTIONS </th>

        </tr>

    </thead>

    <tbody>

        <?php

        foreach ($records->result() as $row) {

            $faculty_id = $row->id;

            $faculty_firstname = $row->firstname;
```



```
$faculty_middlename = $row->middlename;

$faculty_lastname = $row->lastname;

?>

<tr>

    <td> <?= $faculty_firstname ?> </td>

    <td> <?= $faculty_middlename ?> </td>

    <td> <?= $faculty_lastname ?> </td>

    <td>

        <?php

            $view = base_url() .

'main/view_teacher/' . $faculty_id;

            $edit = base_url() .

'main/edit_teacher/' . $faculty_id;

            $delete = base_url() .

'main/delete_teacher/' . $faculty_id;

        ?>
```



```
<a href="<?= $view ?>">

    <button class="btn btn-
primary">View</button>

</a>

<a href="<?= $edit ?>">

    <button class="btn btn-
secondary">Edit</button>

</a>

<a href="<?= $delete ?>">

    <button class="btn btn-
danger">Delete</button>

</a>

</td>

</tr>

<?php
}
```





```
?>

</tbody>

</table>


Manage_teachers.php

-view_teacher.php

<?php $add_subject = base_url() . "main/add_subject/" .
$facultyId?>

<?php $this->load->model('Main_model'); ?>

<h2>Subject's of:</h2>

<h1> <?= $this->Main_model-
>getFullName('teachers','id',$facultyId); ?></h1><br><br>

<a href="<?= $add_subject ?>">

    <button class="btn btn-primary col-md-12">ADD
SUBJECT</button>

</a>

<?php

    $this->load->model('Main_model');
```



```
$this->Main_model->alertSuccess('kahitAno', "Delete  
Successfully");  
  
?>  
  
<div class="card-body">  
  
    <div class="table-responsive">  
  
        <table class="table table-bordered"  
id="dataTable" width="100%" cellpadding="0">  
  
            <thead>  
  
                <tr>  
  
                    <th>Course Code</th>  
  
                    <th>Course Title</th>  
  
                    <th>Number of Papers </th>  
  
                    <th>Option</th>  
  
                </tr>  
  
            </thead>
```



```
<tbody>

<?php

$this->load->model('Main_model');

foreach ($records->result_array() as $row) {

    $subjectId = $row['id'];

    $courseCode = $row['course_code'];

    $no_papers = $row['no_paper'];

    $courseTitle = $row['course_title'];

?>

<tr>

    <td> <?= $courseCode ?> </td>

    <td> <?= $courseTitle ?> </td>

    <td> <?= $no_papers ?> </td>
```



```
<td>
```

```
<?php
```

```
    $edit = base_url() .
```

```
'main/edit_subject/' . $subjectId;
```

```
    $delete = base_url() .
```

```
'main/delete_subject/' . $subjectId . '/0';
```

```
?>
```

```
<a href="<?= $edit ?>">
```

```
    <button class="btn btn-  
secondary">Edit</button>
```

```
</a>
```

```
<a href="<?= $delete ?>">
```

```
    <button class="btn btn-  
danger">Delete</button>
```

```
</a>
```



```
</td>

</tr>

<?php
}

?>

</tbody>

</table>

<div>

    <?php $back = base_url() .
'main/teachers_view/' ?>

    <a href="<?= $back ?>"><button
class="btn btn-secondary col-md-12">Back</button></a>

</div>
```

**Login.php**



```
<!DOCTYPE html>

<html lang="en">

<head>

    <title>Graduate Shool</title>

    <?php $url = base_url() . "assets/login/"  ?>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width,
initial-scale=1">

<!--
=====
=====-->

    <link rel="icon" type="image/png" href="<?= $url
?>images/icons/favicon.ico"/>

<!--
=====
=====-->
```



```
<link rel="stylesheet" type="text/css" href="<?= $url  
?>vendor/bootstrap/css/bootstrap.min.css">
```

```
<!--
```

```
=====
```

```
=====-->
```

```
<link rel="stylesheet" type="text/css" href="<?= $url  
?>fonts/font-awesome-4.7.0/css/font-awesome.min.css">
```

```
<!--
```

```
=====
```

```
=====-->
```

```
<link rel="stylesheet" type="text/css" href="<?= $url  
?>vendor/animate/animate.css">
```

```
<!--
```

```
=====
```

```
=====-->
```

```
<link rel="stylesheet" type="text/css" href="<?= $url  
?>vendor/css-hamburgers/hamburgers.min.css">
```

```
<!--
```

```
=====
```

```
=====-->
```



```
<link rel="stylesheet" type="text/css" href="<?= $url  
?>vendor/select2/select2.min.css">
```

```
<!--
```

```
=====
```

```
=====-->
```

```
<link rel="stylesheet" type="text/css" href="<?= $url  
?>css/util.css">
```

```
<link rel="stylesheet" type="text/css" href="<?= $url  
?>css/main.css">
```

```
<!--
```

```
=====
```

```
=====-->
```

```
</head>
```

```
<body>
```

```
<div class="limiter">
```

```
<div class="container-login100">
```

```
<div class="wrap-login100">
```





```
<div class="login100-pic js-tilt" data-tilt>

</div>

<?php $url = base_url() . "main/index"
?>

<form class="login100-form validate-
form" action="<?= $url ?>" method="post">

    <span class="login100-form-title">

        Member Login

    </span>

    <?php

        if

(isset($_SESSION['account_created'])) {

            echo "<p class='alert
alert-success'>Account created successfully</p>";
```



```
unset($_SESSION['account_created']);

    }

?>

<?php

    if

(isset($_SESSION['invalid_account'])) {

        echo "<p class='alert
alert-danger'>Invalid username or password</p>";

unset($_SESSION['invalid_account']);

    }

?>

<div class="wrap-input100
validate-input" data-validate = "Valid email is required:
ex@abc.xyz">
```



```
<input class="input100"
type="text" name="username" placeholder="Username"
autocomplete="off" autofocus="on">

<span class="focus-
input100"></span>

<span class="symbol-
input100">

<i class="fa fa-user"
aria-hidden="true"></i>

</span>

</div>

<div class="wrap-input100
validate-input" data-validate = "Password is required">

<input class="input100"
type="password" name="password" placeholder="Password"
autocomplete="off" autofocus="on">

<span class="focus-
input100"></span>
```



```
<span class="symbol-  
input100">  
  
        <i class="fa fa-lock"  
aria-hidden="true"></i>  
  
    </span>  
  
</div>  
  
    <div class="container-login100-  
form-btn">  
  
        <button class="login100-form-  
btn" type="submit" name="submit">  
  
            Login  
  
        </button>  
  
    </div>  
  
    <div class="text-center p-t-136">
```



```
<?php $register = base_url()

. "main/register/" ?>

<a class="txt2" href="<?=$register ?>">

Create your Account

<i class="fa fa-long-
arrow-right m-l-5" aria-hidden="true"></i>

</a>

</div>

</form>

</div>

</div>

</div>
```



```
<!--
```

```
=====
```

```
=====-->
```

```
<script src="<?= $url ?>vendor/jquery/jquery-  
3.2.1.min.js"></script>
```

```
<!--
```

```
=====
```

```
=====-->
```

```
<script src="<?= $url  
?>vendor/bootstrap/js/popper.js"></script>
```

```
<script src="<?= $url  
?>vendor/bootstrap/js/bootstrap.min.js"></script>
```

```
<!--
```

```
=====
```

```
=====-->
```

```
<script src="<?= $url  
?>vendor/select2/select2.min.js"></script>
```

```
<!--
```

```
=====
```

```
=====-->
```



```
<script src="<?= $url
?>vendor/tilt/tilt.jquery.min.js"></script>

<script >

    $('.js-tilt').tilt({

        scale: 1.1

    })

</script>

<!--
=====
=====-->

<script src="js/main.js"></script>

</body>

</html>
```

**Register.php**

```
<!DOCTYPE html>
```



```
<html lang="en">

<head>

    <title>Graduate Shool</title>

    <?php $url = base_url() . "assets/login/"  ?>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width,
initial-scale=1">

<!--
=====

=====-->

    <link rel="icon" type="image/png" href="<?= $url
?>images/icons/favicon.ico"/>

<!--
=====

=====-->

    <link rel="stylesheet" type="text/css" href="<?= $url
?>vendor/bootstrap/css/bootstrap.min.css">
```





```
<!--
```

```
=====
```

```
=====-->
```

```
<link rel="stylesheet" type="text/css" href="<?= $url  
?>fonts/font-awesome-4.7.0/css/font-awesome.min.css">
```

```
<!--
```

```
=====
```

```
=====-->
```

```
<link rel="stylesheet" type="text/css" href="<?= $url  
?>vendor/animate/animate.css">
```

```
<!--
```

```
=====
```

```
=====-->
```

```
<link rel="stylesheet" type="text/css" href="<?= $url  
?>vendor/css-hamburgers/hamburgers.min.css">
```

```
<!--
```

```
=====
```

```
=====-->
```

```
<link rel="stylesheet" type="text/css" href="<?= $url  
?>vendor/select2/select2.min.css">
```



```
<!--  
=====
```

```
=====-->  
  
    <link rel="stylesheet" type="text/css" href="<?= $url  
?>css/util.css">  
  
    <link rel="stylesheet" type="text/css" href="<?= $url  
?>css/main.css">  
  
<!--  
=====
```

```
=====-->  
  
</head>  
  
<body>  
  
    <div class="limiter">  
  
        <div class="container-login100">  
  
            <div class="wrap-login100">  
  
                <div class="login100-pic js-tilt" data-  
tilt>
```



```


</div>

<?php $url = base_url() .
"main/register/" ?>

<form class="login100-form validate-
form" action="<?= $url ?>" method="post">

    <span class="login100-form-title">

        Register

    </span>

    <!-- <?php

        if

(isset($_SESSION['account_created'])) {

            echo "<p class='alert
alert-success'>Account created successfully</p>";

            unset($_SESSION['account_created']);
```



```
    }

    ?>

<?php
    if
(isset($_SESSION['invalid_account'])) {

        echo "<p class='alert
alert-danger'>Invalid username or password</p>";

        unset($_SESSION['invalid_account']);

    }

    ?> -->

<div class="wrap-input100
validate-input">

        <input class="input100"
type="text" name="username" placeholder="Username"
autocomplete="off" autofocus="on">

        <span class="focus-
input100"></span>
```



```
<span class="symbol-  
input100">  
  
    <i class="fa fa-user"  
aria-hidden="true"></i>  
  
    </span>  
  
</div>  
  
    <div class="wrap-input100  
validate-input" data-validate = "Password is required">  
  
        <input class="input100"  
type="password" name="password" placeholder="Password"  
autocomplete="off" autofocus="on">  
  
        <span class="focus-  
input100"></span>  
  
        <span class="symbol-  
input100">  
  
            <i class="fa fa-lock"  
aria-hidden="true"></i>  
  
        </span>
```



```
</div>

<div class="wrap-input100
validate-input">

    <input class="input100"
type="text" name="firstname" placeholder="firstname"
autocomplete="off" autofocus="on">

    <span class="focus-
input100"></span>

    <span class="symbol-
input100">

        <i class="fa fa-user"
aria-hidden="true"></i>

    </span>

</div>

<div class="wrap-input100
validate-input">
```



```

                                <input class="input100"
type="text" name="middlename" placeholder="middlename"
autocomplete="off" autofocus="on">

                                <span class="focus-
input100"></span>

                                <span class="symbol-
input100">

                                <i class="fa fa-user"
aria-hidden="true"></i>

                                </span>

                                </div>

                                <div class="wrap-input100
validate-input">

                                <input class="input100"
type="text" name="lastname" placeholder="lastname"
autocomplete="off" autofocus="on">

                                <span class="focus-
input100"></span>
```







```
<?php $back = base_url() . 'main'

?>

<a href="<?= $back

?>">Back</a>

</div>

</form>

</div>

</div>

</div>

<!--

=====

=====-->
```



```
<script src="<?= $url ?>vendor/jquery/jquery-  
3.2.1.min.js"></script>
```

```
<!--
```

```
=====
```

```
=====-->
```

```
<script src="<?= $url  
?>vendor/bootstrap/js/popper.js"></script>
```

```
<script src="<?= $url  
?>vendor/bootstrap/js/bootstrap.min.js"></script>
```

```
<!--
```

```
=====
```

```
=====-->
```

```
<script src="<?= $url  
?>vendor/select2/select2.min.js"></script>
```

```
<!--
```

```
=====
```

```
=====-->
```

```
<script src="<?= $url  
?>vendor/tilt/tilt.jquery.min.js"></script>
```

```
<script >
```



```
        $('.js-tilt').tilt({  
  
            scale: 1.1  
  
        })  
  
    </script>  
  
    <!--  
=====-->  
  
    <script src="<?= $url ?>js/main.js"></script>  
  
</body>  
  
</html>
```



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## Curriculum Vitae

Name: Centeno, Joel John D.G.

Birthdate: May 3, 1999

Age: 21

Gender: Male

Address: Saint anne st. San Jose Village

Email Address: [joelcenteno123312@gmail.com](mailto:joelcenteno123312@gmail.com)

Civil Status: Single

Religion: Roman Catholic

## FAMILY BACKGROUND

Mother: Felipa D.G Centeno

Father: Jonathan Macalintal Centeno

## EDUCATIONAL ATTAINMENT

Primary: Methodist Christian School

Secondary: University of Saint Louis Tuguegarao

Tertiary: St. Paul University Philippines



## Curriculum Vitae

Name: Ibañez, Juan Miguel Rafael P.

Birthdate: September 30, 1998

Age: 21

Gender: Male

Address: Fermin St. Aulyan Sur, Tug City, Cagayan

Email Address: [ibanezr909@gmail.com](mailto:ibanezr909@gmail.com)

Civil Status: Single

Religion: Roman Catholic

## FAMILY BACKGROUND

Mother: Mary Jane P. Ibañez

Father: Michael O. Ibañez

## EDUCATIONAL ATTAINMENT

Primary: Tuguegarao East Central School

Secondary: Cagayan National High School

Tertiary: St. Paul University Philippines