

**Student Activities Attendance System Through Biometric  
Technology and Supreme Student Government Fines  
Collection Management System**

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Faculty of the College of Arts and Sciences  
**Jose Rizal Memorial State University**  
The Premier University in Zamboanga del Norte  
Main Campus, Dapitan City

In Partial Fulfillment  
On The Requirement for the Course  
Bachelor of Science In Computer Science

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Republic of the Philippines  
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## CERTIFICATION

This thesis entitled "**Student Activities Attendance System Trough Biometric Technology and Supreme Student Government Fines Collection Management System**" prepared and submitted by **Ivan Clyde L. Pampilo, Jumar C. Edrial, and Grace Ann S. Obordo** in partial fulfillment of the requirements for the degree; Bachelor of Science in Computer Science has been reviewed, checked and verified by the undersigned as to grammar, coherence and organization.

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## CERTIFICATION

This is to certify that **Ivan Clyde L. Pampilo, Jumar C. Edrial, and Grace Ann S. Obordo** are taking Project Thesis for the degree **Bachelor of Science in Computer Science** during the second semester, school year 2013-2014.

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**COLLEGE OF ARTS AND SCIENCES**

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## CERTIFICATION

This is to certify that the thesis entitled "**Student Activities Attendance System Through Biometric Technology and Supreme Student Government Fines Collection Management System**" of Ivan Clyde Lopez Pampilo , Jumar C. Edrial and Grace Ann S. Obordo, leading to the Degree of Bachelor of Science in Computer Science, whose document has been reviewed and all suggestions and comments have already been incorporated.

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This thesis entitled **STUDENT SCHOOL ACTIVITIES ATTENDANCE SYSTEM THROUGH BIOMETRIC TECHNOLOGY AND SUPREME STUDENT GOVERNMENT FINES COLLECTION MANAGEMENT SYSTEM** prepared and submitted by **IVAN CLYDE L. PAMPILO, JUMAR C. EDRIAL, and GRACE ANN S. OBORDO** has been reviewed and approved by the Thesis Committee.

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**DEDICATION**

This study is heartily dedicate this research project to our beloved parents who totally extend their moral, financial, and spiritual support to make our study successful.

To our parents, Mr. and Mrs Magno T. Pampilo, Mr. and Mrs. Pacifico F. Edrial Jr. and Mr. and Mrs. Edmund H. Obordo who are always on our side to guide and support our financial needs.

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Above all, to our Almighty God who gave us knowledge, strength and courage to face all the troubles that we encounter while doing the proposed study.

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## **The Researchers**

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**The Researchers**

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# **Student Activities Attendance System through Biometric Technology and Supreme Student Government Fines Collection Management System**

## **Abstract**

The study aimed to develop an attendance and fines collection management system of the Supreme Student Government by the use of biometric technology. This software is the innovation of the attendance system using fingerprint scanner.

The developmental research method was used in the study. It included data gathering wherein the researchers gathered information from the internet, books and other references; requirements analysis; designing and coding the proposed system; and lastly the testing and evaluation in order to test the effectiveness of the system.

There were 30 respondents of the study utilized in the evaluation of effectiveness of the proposed system. This included the IT professionals, IT students and SSG officers. The respondents rated the system according to its functionality, reliability, usability, efficiency, maintainability and portability.

The system as revealed in the evaluation that in terms of functionality, reliability, usability, efficiency, maintainability and portability has the mean average of 4.58 or very much acceptable.

The researchers concluded that the system offers more benefits and better process that will handle and accommodate the needs of the students and the SSG officers especially in the attendance and managing the fines of the students.

# **Chapter 1**

## **THE PROBLEM AND ITS SCOPE**

### **Introduction**

Today's technology is rapidly growing which is directly made for people to lessen the burdens and make our work easier. Being part of today's new generation, as expected, there is a huge percent of people who do have an interaction to the technology era.

Nowadays many institutions use bar code system in getting the attendance of the student. But there are problems that can be encountered in using the barcode system. First, the student can have the attendance even without attending the event by letting other students bring other's ID. Second, is that when the student forgot or lost the ID, the student can no longer have the attendance unless the student will get a new ID. From this idea and with further observation, the researchers came up with the study, Student Activities Attendance System Trough Biometric Technology and Supreme Student Government Fines Collection Management System. Thus, this was the main reason why the researchers chose the system, the researchers aim to develop the attendance system in Supreme Student Government more reliable and the student can have the attendance even though they forgot to bring their ID's, it will also and efficient way in recording the fines for student.

The current situation serves as a challenge of the researcher to improve and minimize the time consuming and the student that involve in operating the attendance system. The researchers developed this concept right from what they

observe and experience in every school activities. The whole purposes were to ensure that the system is relevant to the most user-friendly and less student will be involved in making the attendance of his/her fellow student and also the SSG Officers can easily compute the fines of a student. In addition, the researcher hope it can manage 80% of the SSG needs.

### **Theoretical/Conceptual Framework**

This study was premised on Fingerprint-Based Attendance Management System design by Kinduyite C.O and company on November 04, 2013. The paper presents a theoretical framework of Fingerprint-Based Attendance Management System (FBAMS). The Author introduces the broad meaning of the Attendance Management System, Types of Attendance Management System, System Overview, System Architecture, and System Overview. The paper also elaborates the Enrolment Module, Authentication Module, and The Database.

This proposed system introduces a new automatic attendance management system, which integrates fingerprint authentication into the process of attendance management for both staff and student. It is made up of two processes namely; enrolment and authentication.

During enrolment, the biometrics of the user is captured and the minutiae data are extracted and stored in a database as a template for the subject along with the user's ID. The objective of the enrolment module is to admit a user using his/her ID and fingerprints into a database after feature extraction. These features form a template that is used to determine the identity of the user, formulating the process of authentication. The enrolment process is carried out by an administrator of the attendance management system. During

authentication, the biometrics of the user is captured again and the extracted features are compared with the ones already existing in the database to determine a match. After a successful match, attendance is marked against the user's id used in matching the templates.

The work utilized a fingerprint reader as the input to acquire images, developed program that has fingerprint recognition and identification system as well as database to store user's information. The database comprises the fingerprint templates and other bio-data of the users together with the attendance records made by the users. Figure 1 shows the architecture of the proposed attendance management system.

In addition, this study was premised on the Theory of "Biometrics" by Ron Vetter and Karl Ricanek Jr. on February 2010. The said theory states that the authentication of persons based on physical or behavioral characteristics. Biometric technology can be found in many aspects of our daily life, from paying for groceries to accessing personal computers and buildings to automatically labeling and organizing digital pictures.

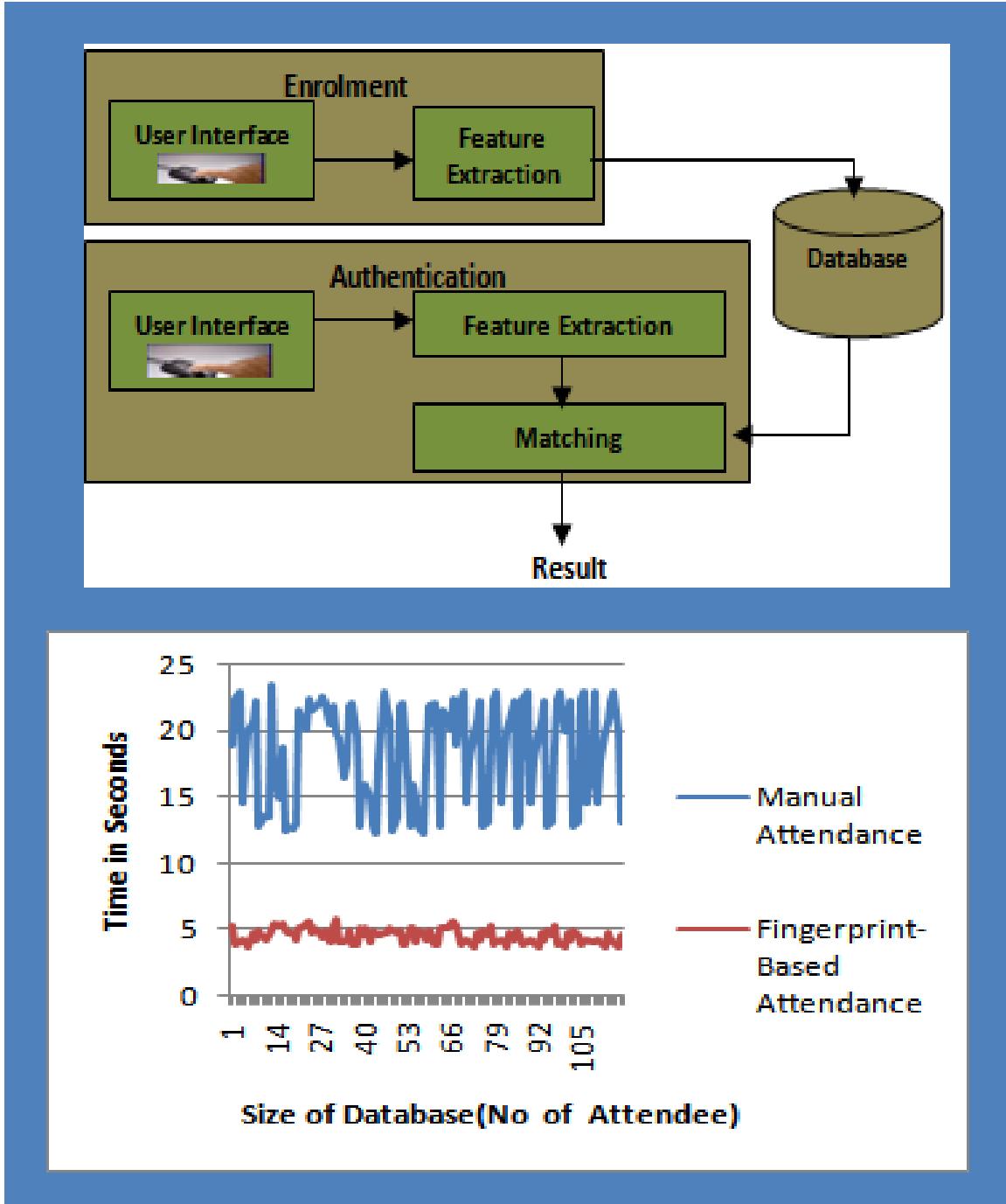
Biometrics has a long history dating back several thousand years, when biometric information was used to process payment (food rations) for thousands of workers building the pyramids. Historical documents indicate that notes were kept detailing names and birthplaces along with physical characteristics (height, weight/girth, scars, deformities) and behavioral traits (rude, sullen, braggadocio, happy) to ensure that workers did not cheat the payment system.

The fevered pace of biometrics research has created new modalities based on keyboarding patterns or mouse movements, walking patterns (gait),

types of utterances (speech), the configuration of veins in the finger or hand (veinal), geometries of the finger or hand, the face, and the complex structures of the melanin-rich area of the eye (iris). These emerging biometric modalities have created vast commercial opportunities outside the more common public sector uses. In fact, Acuity, a technology strategy company located in Louisville, Colorado, predicts a compound annual growth rate of 19.69 percent for biometric technology from 2009 to 2017, at which point commercial deployment of biometrics will outpace public sector use. Biometric is still relatively new to most people and will remain expensive to purchase good equipment. The Future of access control security is literally in our own body.

Unfortunately, this shift to biometric-enabled security created as profound threats to commonly accepted notions of privacy and security .It makes possible privacy violations that would make the National Security Agency is data sweeps seem superficial by comparison.

These methods of personal authentication are well established. Hand recognition has been available for over twenty years. To achieve personal authentication, a system may measure either physical characteristics of the fingers or the hands. These include length, width, thickness and surface area of the hand. One interesting characteristic is that some systems require a small biometric sample (a few bytes) Hand geometry has gained acceptance in a range of applications.



**Figure 1. Fingerprint-Based Attendance Management System**

In Figure 2 on page presents the schema of the study. A representation of a plan or theory in the form of an outline or model. Each of the boxes holds data on how to use the Student School Activities Attendance System Trough Biometric Technology and Supreme Student Government Fines

CollectionManagement System. The schema used in the study follows the presentation of the requirements in putting up Finger print Scanner and SSG Fines Collection Management System in JRMSU, Main Campus.

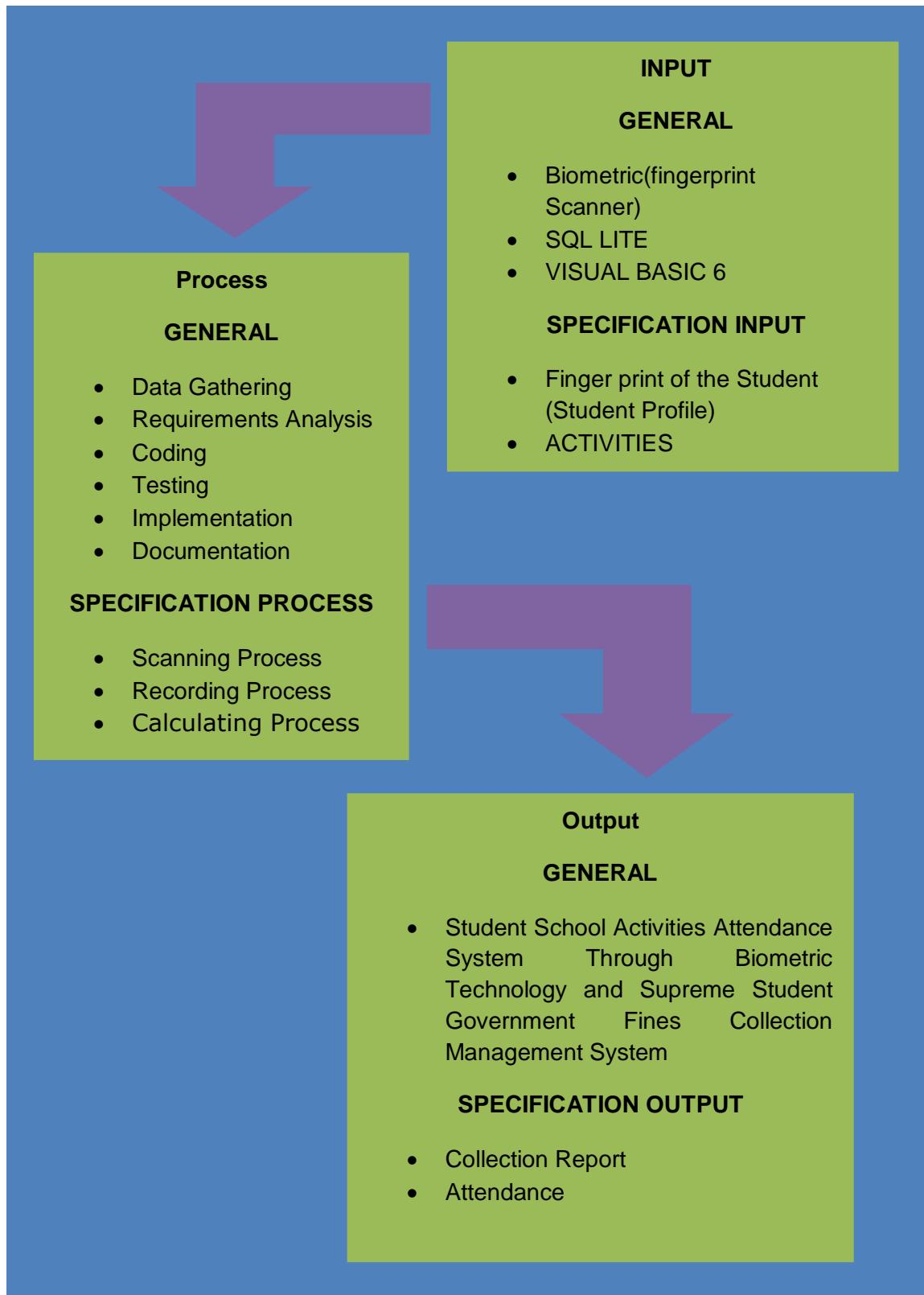
The First box contains the input and specific input which refers to the topics involves in the study it includes Fingerprint Scanner which serves as a machine that scan the finger of a student, My SQL is a freely available open source Relational Database Management System (RDBMS) that uses Structured Query Language (SQL) that serves as a server that helps management all the data input by the user, Visual Basic is a third-generation event-driven programming language and integrated development environment (IDE) from Microsoft for its Component Object Model (COM) programming model first released in 1991 and declared legacy during 2008. Microsoft intended Visual Basic to be relatively easy to learn and use.<sup>[1][2]</sup> Visual Basic was derived from BASIC, a user-friendly programming language designed for beginners. The language also facilitates declaration of user defined classes it is used in calculating the fines of the students. The impression or mark left by the underside of the tips of the fingers or the thumbs. The impression is formed by a pattern of ridges on the skin surface. This pattern is unique for each individual and therefore serves as a means of identification.

Fingerprint is an impression left by the friction ridges of a human finger. Fingerprint is the heart of the program because without it the program is useless. Student profile is needed when registering the program like for example ID number, full name, course, finger print and etc.

The Second box represents the process involve on how the researchers conducted the study. First was Data Gathering it includes gathering of data where researchers try to find a ways to conduct research in order to know the current system used on how to modify it using the modern technology? Followed by Requirements Analysis is the process of determining user expectations for a new or modified product. Where researchers analyze the data gathered in order to determine what are needed to take the study into an action. Next is Designing, is the creation of a plan or convention for the construction of an object or a system (as in architectural blueprints, engineering drawings, business processes, circuit diagrams and sewing patterns). This was where the researchers decided how to implement the outlook of the desired system in order to be more effective, next is Coding this phase involves take an action to create executable program for the research study. Next was Testing, this is when the researchers tested the system created in order to determine the capabilities of the created system. Next is the Implementation of Phase where the researchers implemented the study into the public or private use. Lastly was the Documentation, is a set of documents provided on paper, or online, or on digital or analog media, such as audio tape or CDs. In this phase the researchers created a corresponding documentation of the study in order to create a guideline on how the study works or conducted. Scanning Process this processes scan the fingerprint of a student. Recording Process this processes records the data gathered by the student. And records the fines of the students. Calculating Process this processes calculates the fines of the student base on their absences.

The Third box presents the output and specific output of the study which was the "Student School Activities Attendance System Through Biometric Technology and Supreme Student Government Fines Collection Management System" through this system the SSG Officers can get the attendance of the student faster and much more reliable than the current system in Jose Rizal Memorial State University because it requires less human effort and it only consumes less time and one of the highlights of this system is that the collection report because the current system has no collection report, the collection report is so important because it contains the official or total fines of all the students in the university and also the money involved will be audited clearly therefore it avoids biases on data reported by the Supreme Student Government . For the Students there will be no hustle in getting their attendance and the students can have fair attendance because other students will let their classmates or board mates to bring their id to have their attendance. Collection Report of the SSG can view by the admin user only; it will be viewed to the students during signing of clearance, And if there is an issue on bias attendance of the student, the student can clarify which date he or she is absent. Attendance is the action or state of going regularly to or being present at a place or event. The student attendance can also be viewed by the admin user only; it will be viewed to students during signing of clearance if they want to know when they made their absences.

If the student has a valid reason for being absent in a certain activity of the school, he or she can have a discount of paying the fine. The student should have evidence so that he or she can get discounts.



**Figure 2. Schema of the Study**

## **Statement of the Problem**

This study aimed to developed and provide efficient Software for Student Activities Attendance Using Fingerprint Scanner and SSG Fines Collection Management System at Jose Rizal Memorial State University Main Campus, Dapitan City, during School Year 2014-2015.

Specifically, it sought to answer the following question.

1. What is the current system in Jose Rizal Memorial State University in terms of Student School Activities Attendance System through Biometric Technology and Supreme Student Government Fines Collection Management System?
2. What are the components involved in developing an attendance system using fingerprint scanner and SSG Fines collection management system of SSG Organization?
3. What are the processes and algorithms involved in the development of the system.
4. What other existing systems that can be fused into a hybrid the Student School Activities Attendance System through Biometric Technology and Supreme Student Government Fines Collection Management System?
5. How does Student Activities Attendance Using Fingerprint Scanner and SSG Fines Collection Management System work as to:
  - 1.1 functionality
  - 1.2 Reliability
  - 1.3 Efficiency
  - 1.4 Maintainability

### 1.5 Acceptability

### 1.6 Usability

## **Significance of the Study**

This study will benefit the following:

**Students.** This study will help the students if their I.D. is left, they can still have their attendance. Also the students will no longer disobey the rules and regulations of the school since it will be very easy for them to have their attendance checked.

**SSG Officers.** This study will give the officers to record the fines of a student easily and they can monitor the students if they attend the activity or not.

**Parents.** This study will make the parents comfortable because they know their children are secured.

**Researchers.** This study helps the researchers to gather additional information which ultimately give additional learning.

## **Scope and Delimitation**

This study was conducted at Jose Rizal Rizal Memorial University Main Campus, Dapitan City first semester SY 2015 – 2016.

This study focused on “Student Activities Attendance Using Fingerprint Scanner and SSG Fines Collection Management System, JRMSU MAIN CAMPUS, DAPITAN CITY.” The study focuses on how to prevent the student to bring their ID with another student. This system can serve thousands of students and it is faster to use. The study also covered fines management system; it will compute the fines of the student.

`The study does not seek to include the financial report of the Supreme Student Government.

### **Definition of Terms**

The following terms are hereby operationally defined as used in the study.

**Technology.** The knowledge of techniques, processes, etc. or it can be embedded in machines, computers, devices and factories, which can be operated by individuals without detailed knowledge of the workings of such things.

**Biometric.** The science and technology of measuring and analyzing biological data. In information technology, biometrics refers to technologies that measure and analyze human body characteristics, such as DNA, fingerprints, eye retinas and irises, voice patterns, facial patterns and hand measurements, for authentication purposes.

**Fingerprint Scanner.** Are security systems of biometrics? They are now used in police stations, security industries and most recently, on computers. Everyone has marks on their fingers. They cannot be removed or changed.

**Theory.** A supposition or a system of ideas intended to explain something, especially one based on general principles independent of the thing to be explained.

**Methodology.** A system of methods used in a particular area of study or activity.

**Automation.** The use of largely automatic equipment in a system of manufacturing or other production process.

**Thumb Mark.** A mark left on a surface by a person's fingertip.

**Scanner.** A device for examining, reading, or monitoring something, in particular.

**Admin.** The administration of a business, organization, etc.

**System.** A set of principles or procedures according to which something is done; an organized scheme or method.

**C++.** A general-purpose programming language.

**Fines.** The most usual use of the term is for financial punishments for the commission of crimes, especially minor crimes, or as the settlement of a claim. A synonym, typically used in civil law actions, is **mulct**.

**Process.** A series of actions or steps taken in order to achieve a particular end.

**Notification.** The action of notifying someone or something.

## **Chapter 2**

### **RELATED LITERATURE STUDIES**

This chapter reviews related studies and literature, which are relevant to the present investigation. Different views were considered in framing up the researcher's own point of view.

#### **Literature**

Mrs. Renu Bhatia (5, May 2013) a review about Biometrics and Face Recognition Techniques it stated that Biometric is rapidly evolving technology that is being widely used in forensics, security; prevent unauthorized access in bank or ATMs, in cellular phones, smart cards, PCs, in workplaces, and computer networks. There are numerous forms of biometrics now being built into technology platforms. It has been implemented in public for short time. There are lots of applications and solutions in biometrics technology used in security systems, which can improve our lives such as: improved security, it is reduced con and password administrator costs, easy to use and make life more secure and comfortable.

But it is not possible to definitely state if a biometric technique are successful run, it is essential to locate factors that's help to reduce affect system performance. The international biometric group Strike System Strikes are: in Fingerprint Dry/oily finger, in Voice recognition Cold or illness that affects voice, in Facial recognition Lighting conditions, in Iris-scan Too.

The paper state that as promising as the technology of biometrics may be, it is not 100% perfect. Many companies and institutions that implement the use of

biometrics, also supplement the use of existing passwords, access cards and PIN numbers as fail safe systems. Consideration must also be made for the disabled and those who cannot use their biometrics.

A prime example is biometric applications in the military. The implementation of biometrics would be ideal since the military deals with various secret and high risk information, but it might not be efficient in its accessibility for veterans or the wounded who might have been injured in combat and not do not have scarred tissue on their hands that might not be able to product an accurate fingerprint or damaged eyes that might not be recognized by a retina scan.

Civilians might face the same problems as well. Someone who might have been in a car accident and had his or her arm amputated might not have a hand now to use a vascular pal scanner at the ATM, and would probably be better off using the conventional system of access card and PIN number. Another major hurdle is the cost for the installation and maintenance of such systems. Complete overhauls on existing systems and converting them to become accessible via biometrics also requires to cooperation of the users.

In order for the system to work, initial biometrics must be recorded and stored in the database as the corresponding match in order for a user to access the system. Despite these few insufficiencies, biometrics in comparison to traditional conventional information access and security systems are far more dependable, using the individual rather than what they possess or remember as the key.

Mohammad A. Alia(6, December 2013) a research about INTEGRATED SYSTEM FOR MONITORING AND RECOGNIZING STUDENTS DURING

CLASS SESSION the researcher conclude that the possibility of establishing student attendance system based on face detection and recognition authentication scheme. The system allows the instructor to check his/her student attendance automatically by using personal computer (PC) without any extra cost and effort. As new technology for student attendance system, this system is proposed to replace the previous biometric attendance system, since attendance report can be created by the classroom camera. As well as, the proposed system needs only the basic requirements such as; camera, PC, and local network.

Development of Attendance Management System using Biometrics by O. Shoewu, Ph.D and O.A. Idowu, B.Sc. noted that the system successfully took the attendance both at lectures and examinations. The prototype successfully captured new fingerprints to be stored in the database; scanned fingerprints placed on the device sensor and compared them against those stored in the database successfully. The performance of the system was acceptable and would be considered for full implementation especially because of its short execution time and reports generation. Everyone who tested the system was pleased and interested in the product being developed for use in schools

In the journal paper of “Bar Code Scanner Based Student Attendance System (SAS)” (Subramaniam H. et al., 2013), it had known that student attendance and participation among a class is very important in order to achieve good academic outcome of a student and school. This journal paper main objectives had concerned about to replace the non-automated attendance record system with the barcode scanner technology in order to record and manage the student attendance records more efficiently and effectively. As mentioned in the

journal paper, RFID-based technology and biometric-based technology is sometime too costly to implement into a school since it requires purchasing of certain hardware in order to get the system work. Compare to both RFID-based technology and biometric-based technology, barcode technology obviously shown that it is cheaper than both the technology. So through the journal paper, barcode scanner attendance system had been introduced to improve the admin staff managing process such as process daily, weekly and yearly student attendance report. In the barcode scanner technology, student will be issued a student card for each of them with the barcode displayed on the card for a scanning purpose every time they attend the classes.

Student attendance status will be automatically checked and record into the system once lecturer scan their student card with barcode scanner. From the journal paper, we can get to know that the attendance system using barcode scanner technology is much better than the traditional attendance system in school as the lecturer just requires to scan the barcode of the student cards as prove that the student attend the class.

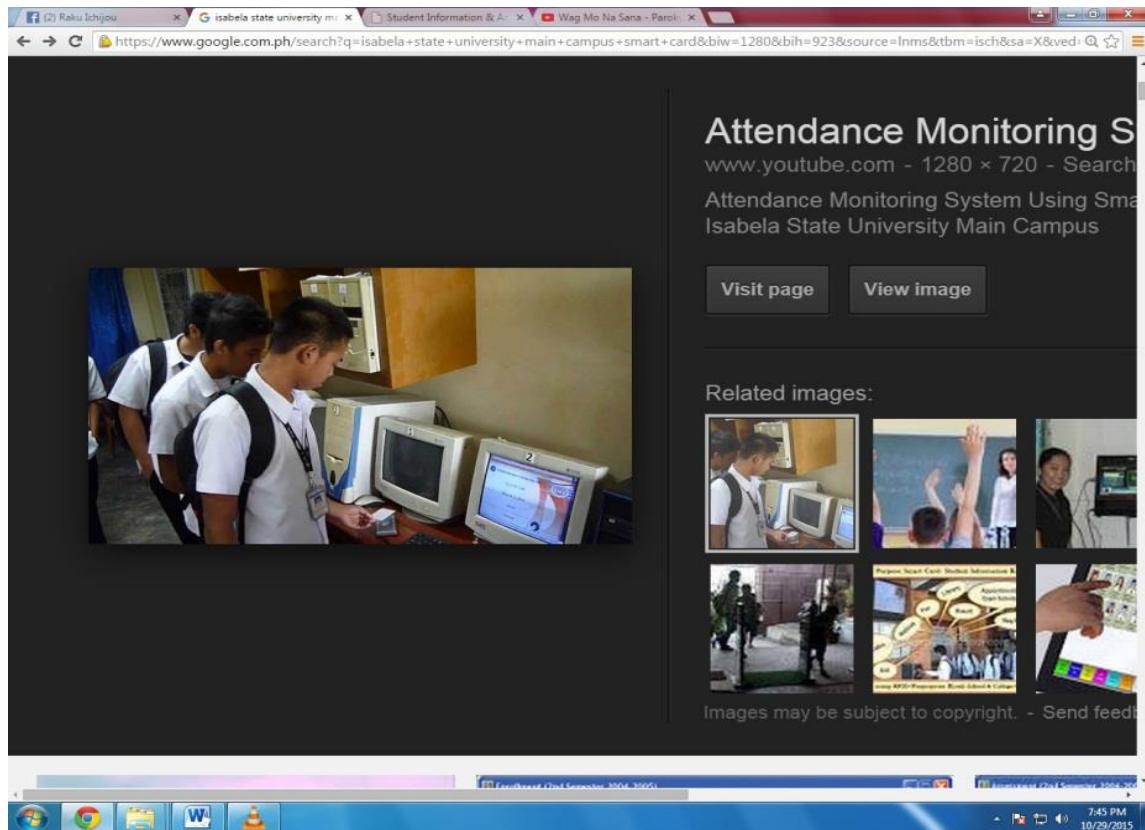
### **Local studies**

The Isabela State University Laboratory High School is one of the public high schools that embrace information and communication technology now. As they immersed themselves with technology through their delivery of lessons and other forms brought about by information technology. Attendance is very important in every student, a single absent is a big difference in performance in the school. Mostly students of high schools are prone to absences, it is because of some reasons that they think it is a boring class, laziness to attend the class,

some students prefer going to computer shops playing games rather than entering the class and some students cannot refuse the influence of a friend inviting to go with them during class period.

In this manner, the researchers therefore proposed the Parent Portal and Attendance Monitoring System with Short Message Services (SMS). The design and development of the system consists of two platforms. The first platform is the stand alone or window-based system. The stand alone or window-based system's function is to record attendance. If the student is absent and it is recorded to the stand alone system or window-base system, it will open a form that contains the SMS application that has a function to send a notification to parent that the student is absent. Saving of attendance in the stand alone or window-base system will trigger the second platform which is the parent portal or web-based system to duplicate the recorded attendance of the stand alone or window-based system. In other words, the two platforms will record the attendance simultaneously. The Parent Portal and Attendance Monitoring System with SMS provide a fast way of informing the parent anytime anywhere. The recorded everyday attendance to class is displayed in the parent portal and if absences occur it automatically sent to parents.

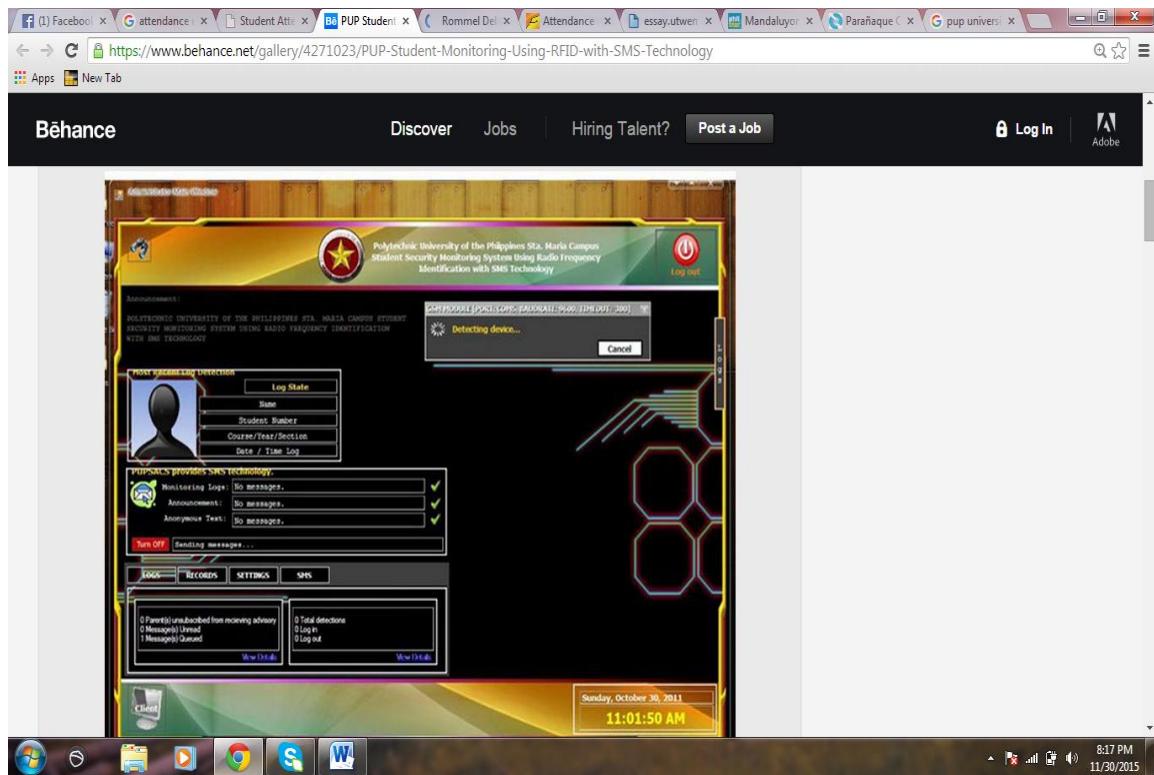
The deference between "Isabella State University attendance Monitoring System" and Student School Activities Attendance System through Biometric Technology and Supreme Student Government Fines Collection Management System is that this system can send a short message to the parents or guardian to notify them if their student is absent.



**Figure 3. Isabela State University Polytechnic University of the Philippines**

The purpose of this system is to monitor the arrival and departure of Polytechnic University of the Philippines students. The students will use their RFID card (Radio Frequency Identification) to enter in the school premises. The RFID reader will detect if the RFID card is registered on the database of the school. The function of SMS (Sort Message Service) Advisory is it will give the parents the information regarding the time of the arrival and departure of their children in the PUP campus even though they are at home. The system features SMS advisory and Announcement.

This study is related to “Isabela State University Attendance Monitoring System” because they both send a short message but this study send an SMS regarding the arrival of the student.

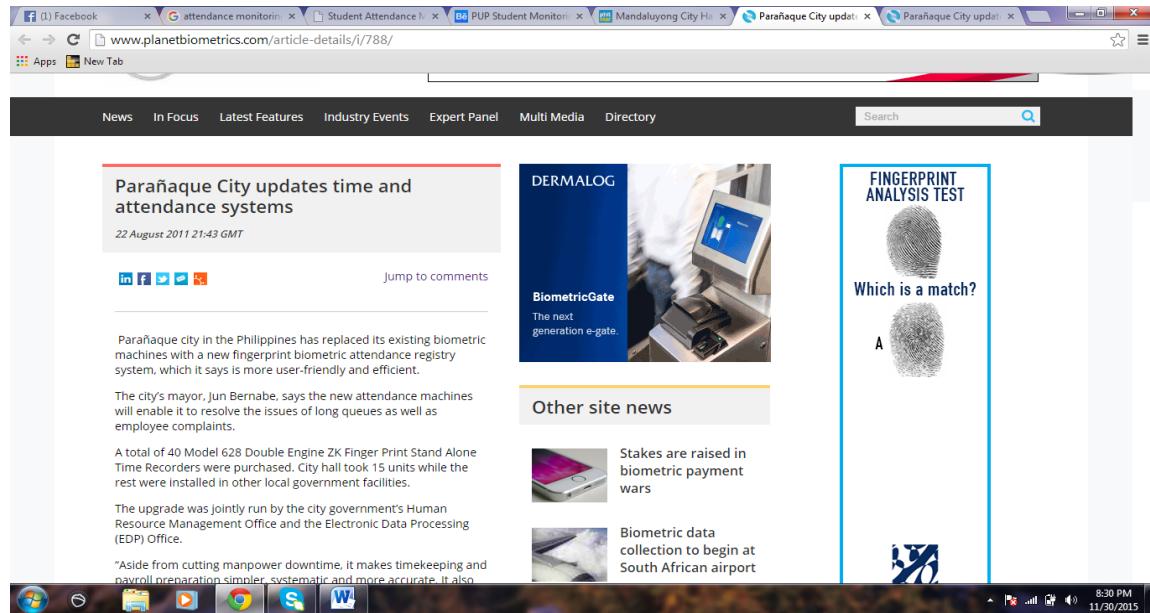


**Figure 4.Polytechnic University of the Philippines**

Parañaque city in the Philippines has replaced its existing biometric machines with a new fingerprint biometric attendance registry system, which it says is more user-friendly and efficient.

A total of 40 Model 628 Double Engine ZK Finger Print Stand Alone Time Recorders were purchased. City hall took 15 units while the rest were installed in other local government facilities. The upgrade was jointly run by the city government's Human Resource Management Office and the Electronic Data Processing (EDP) Office. "Aside from cutting manpower downtime, it makes timekeeping and payroll preparation simpler, systematic and more accurate. It also provides an additional way to identify, discipline and fire habitual late-comers, absentees and ghost employees.

This study is almost the same to “Student School Activities Attendance System through Biometric Technology and Supreme Student Government Fines Collection Management System such that they both use a finger print scanner in getting the attendance of a person.



**Figure 5.Parañaque City (EDP)**

### Foreign Studies

By monitoring student attendance the researcher hope to be able to identify students who need support at an early stage and put in place measures to help them continue their studies. Student Attendance Monitoring is a requirement for all students. The University expects student to attend all there mandatory timetabled sessions. The UCLan card is used to register the attendance in class. By the end of January 2015, 95% of teaching rooms will have electronic card readers outside, if this is one of the rooms in which the student teaching event is taking place student must pass the Clan card across the front of the electronic card reader; this records the students presence in that

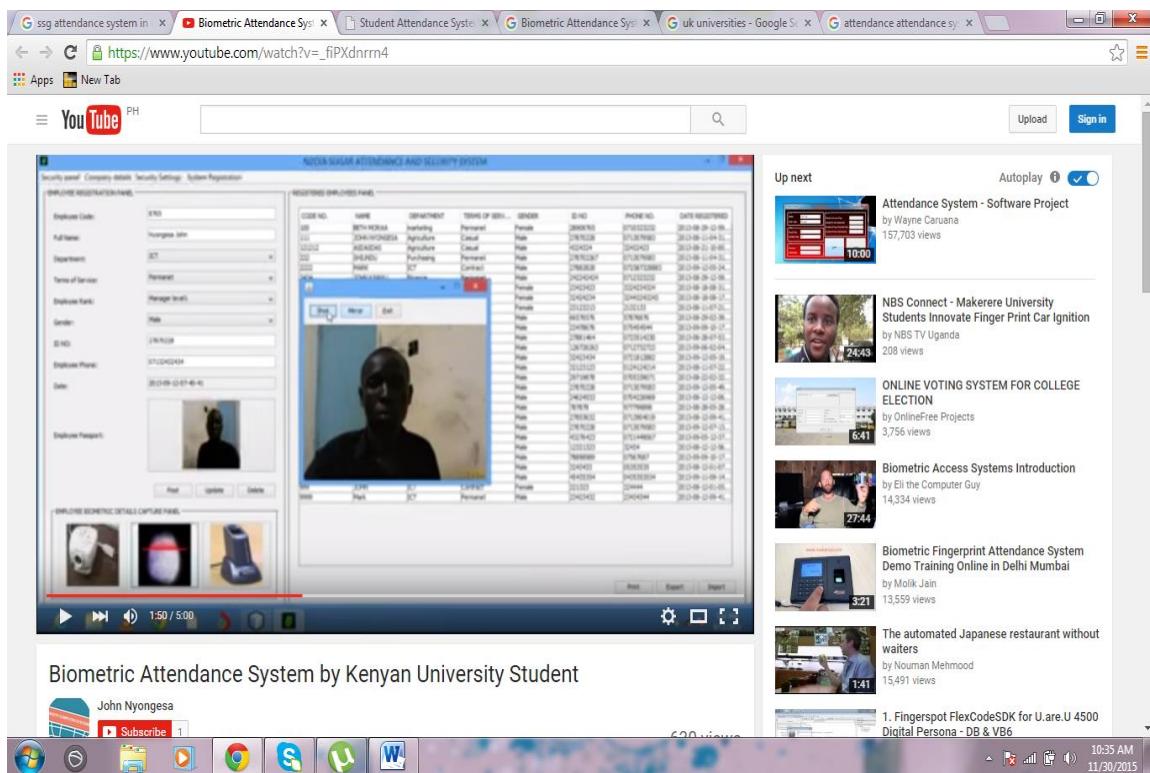
room at that time. If the student forgot the UCLan card the lecturer will be able to overwrite the absence mark. The researcher noted that the student must be aware that the SAM system has robust reporting functionality which will allow attendance data to be shared with student personal tutor. The student will be asked to contact their personal tutor so that support can be offered. The University understands that from time to time there is good reason why the student cannot attend a class, and in this instance the student must contact their school office to let them know so the SAM system can be updated accordingly. The researcher's primary aim is to support the student studies, but the student are also required to report attendance to various external bodies such as the Student Loan Company and the Home Office. Because of this, sanctions will be in place for students who seek to falsely register either their own or fellow students' attendance, and spot checks will be carried out during the year to identify incidents of false registration.



**Figure 6.University of Central Lancashire**

This bio-metric attendance system has been developed by a Kenyan Nyongesa John a MasindeMuliro University computer science student. The system uses a webcam camera or a USB webcam camera to capture an Employee's passport. The System then registers the Employee's fingerprint which is later used to identify the employee using a fingerprint Scanner. The System manages employee's entry and exit at workplace by recording the time the employee reports to work, lunch, exit and other movements. This data is then used to calculate salary for casual workers.

This study is related to Student School Activities Attendance System through Biometric Technology and Supreme Student Government Fines Collection Management System because they both use biometrics as their attendance system but this study uses face recognition.



**Figure 7. University of Kenyan**

The universities of Sunderland and Ulster have installed biometric monitoring systems on satellite campuses not used by British students, a move condemned by the National Union of Students. Mostly students of high schools are prone to absences, it is because of some reasons that they think it is a boring class, laziness to attend the class, some students prefer going to computer shops playing games rather than entering the class and some students cannot refuse the influence of a friend inviting to go with them during class period.

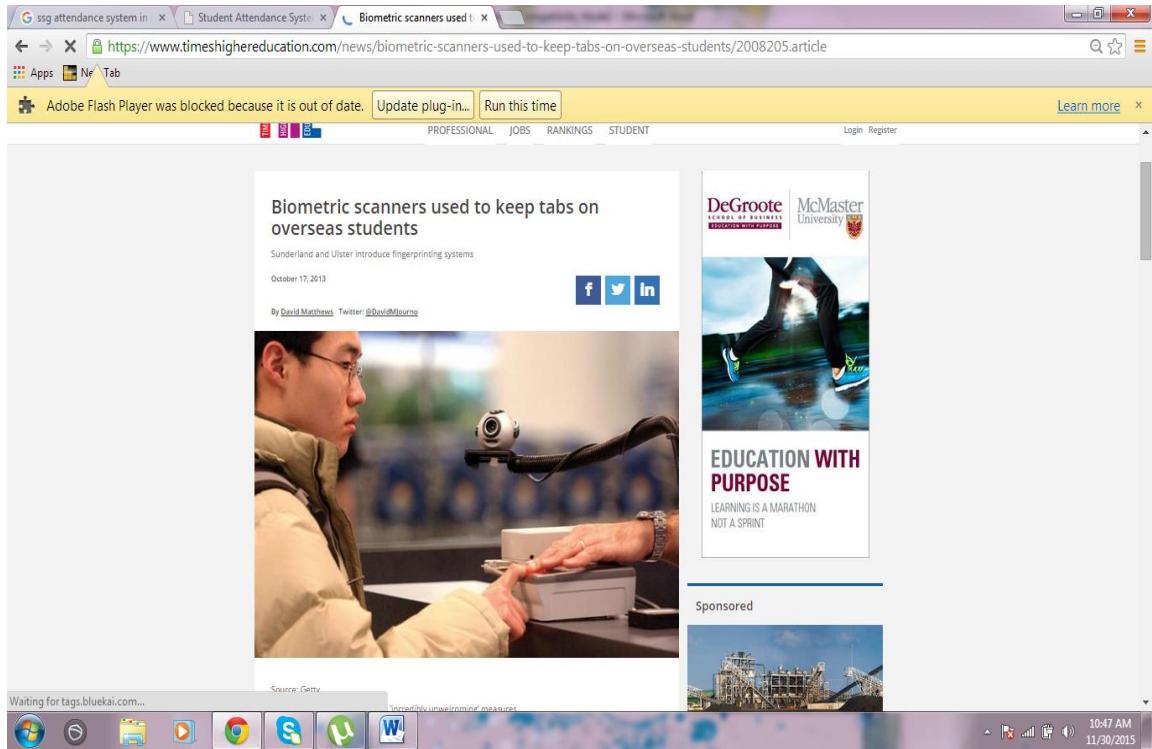
Earlier, Sunderland brought in fingerprint-scanning devices for lectures on its London campus, replacing traditional paper registers. Ruth Davison, student relations and compliance manager at Sunderland, said the system had been installed because the site was “entirely international” and the Home Office required that all attendance be monitored.

Under a swipe pass system, students could sign each other in and passes could even be lost. And time taken signing a physical register during lectures “has a huge impact on teaching and learning”.

The fingerprint data would be destroyed after students left the university, Ms Davison added. The researcher also said that the students were “really comfortable” about fingerprinting and the London campus’ student council was happy with the system.

The research entitled Sunderland and Ulster University biometric monitoring systems is similar to Student School Activities Attendance System through Biometric Technology and Supreme Student Government Fines Collection Management System because they both use finger print scanner to record the attendance of a person or a student, also it both help to lessen the

burdens in gathering the attendance. But the Sunderland and Ulster University biometric monitoring systems has no fines management system.



**Figure 8. University of Sunderland**

The University Senate has agreed a unified University policy on attendance monitoring for all home and international students. This is to ensure equity of treatment across the whole student population and enable attendance monitoring to be an effective tool for identifying any problems at an early stage and offering students appropriate support. Departments are therefore required to monitor attendance and review engagement with the program of study, for all home and international students.

The University has developed central Student Attendance Monitoring (SAM) systems to assist departments in recording both student attendances throughout the year and student engagement at specific Check

Points during the year. These systems include a Reporting Facility to assist in monitoring and reviewing student attendance/engagement data.

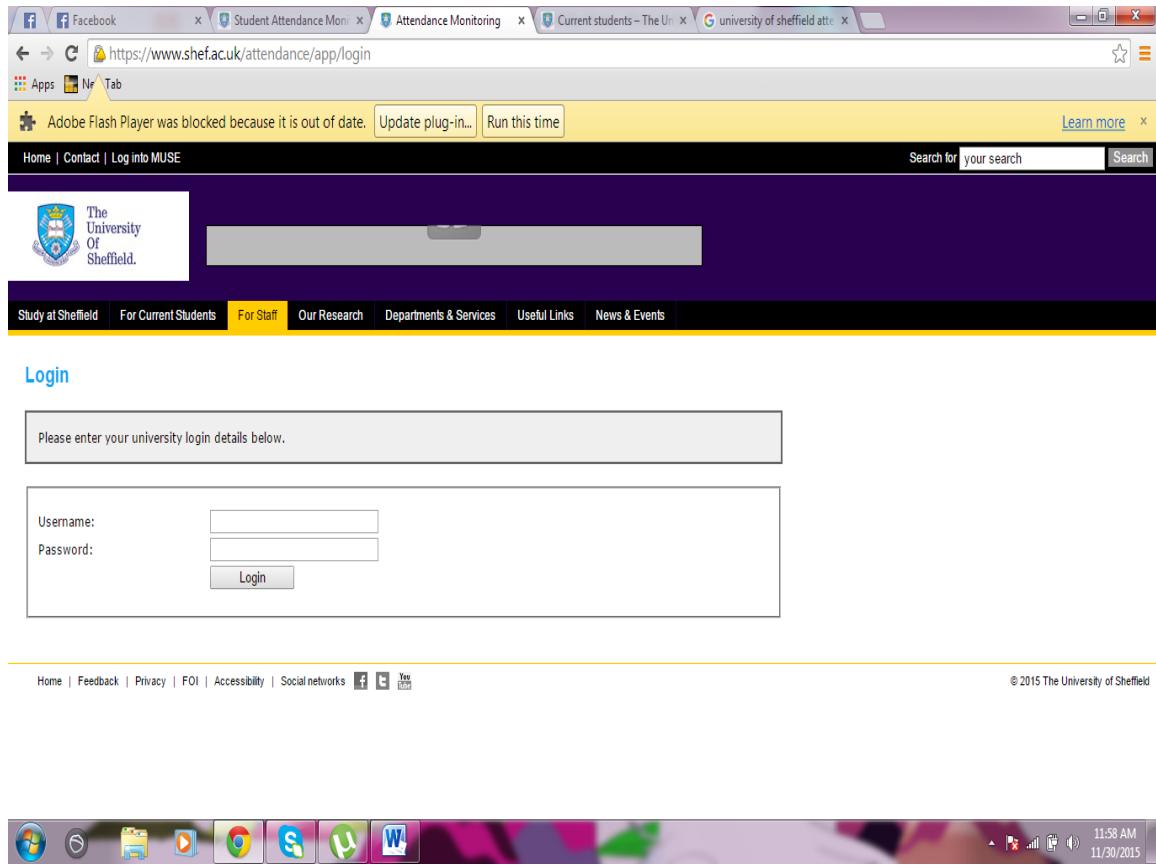
**Attendance Data** – Departments are required to monitor the attendance of all students (both Home/EU and Overseas). Departments must maintain their own records of student attendance monitoring activities they undertake, and are strongly encouraged to use the central SAM system for this purpose.

**Check Point Data** – Departments are required to regularly review attendance data and other evidence of participation/progress for all students (both Home/EU and Overseas) to judge whether they are fully “engaged” with their program of study or not. Using the central SAM system, departments must confirm at two or three official check points during the year following initial registration, whether or not students are engaging with their program of studies.

The University Senate has agreed to monitor attendance of both home and international students. This is to ensure equity of treatment across the whole student population and enable attendance monitoring to be an effective tool for identifying any problems at an early stage and offering students appropriate support. Departments are required to monitor the attendance of all students from the start of the 2010-11 academic session onwards.

This study is somewhat similar to Student School Activities Attendance System through Biometric Technology and Supreme Student Government Fines Collection Management System but Student Attendance Monitoring in Sheffield University includes Reporting Facility to assist in monitoring and reviewing

student attendance/engagement data while the other one includes fines management system.



**Figure 9. University of Sheffield**

The system has been designed specifically to support Higher Education institutions to comply with Home Office requirements for Tier 4 license compliance, managing and evidencing their student's attendance. Attendance is very important in every student, a single absent is a big difference in performance in the school. The system delivers fast and reliable information on a cost effective basis, offering outstanding value for money.

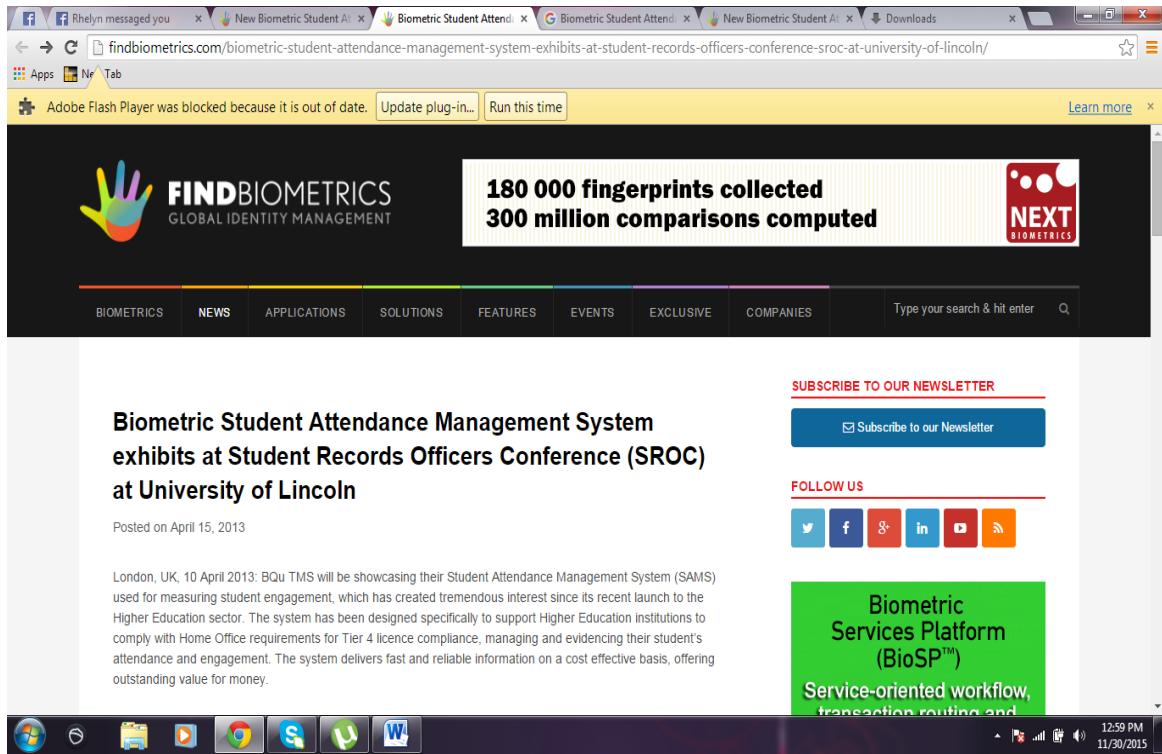
Universities are working hard to establish effective systems to monitor and measure the engagement and attendance of their students. There are different approaches to solving the issue, some of which are tremendously labour

intensive and time consuming. For example, at one leading UK University, two administrators have to attend each lecture to supervise and observe the ‘signing-in’ process, in an effort to reduce the volume of fraudulent registrations. They then take the Sign In forms and have to manually transfer the attendance data onto spreadsheets.

Then the data has to be analyzed to identify students who have missed an event, followed by further analysis of the student’s previous attendance history to ascertain the context of the absence. The researcher noted that the student must be aware that the SAM system has robust reporting functionality which will allow attendance data to be shared with student personal tutor. This is all before they are able to do any work that adds value, such as contacting the absent student and creating an audit trail of their actions and contacts.

Solutions involving sign in sheets, registers and swipe card systems are all open to abuse, error and as described, take up far too much time of staff and students. A system based on biometrics, where the data can be gathered quickly, efficiently and easily, and also provides unequivocal evidence of a student’s attendance provides an effective solution.

The system uses finger print scanners for students to register for a contact event and a central control dashboard provides instant information on any late or missing students. This enables administrators to priorities and focuses their time where it is needed, to take action accordingly. High, Medium and Low Risk categories aid the ability of the responsible staff to ensure they are in control and to provide reports and evidence to the regulator at any time, should they need to.



**Figure 10. University of Lincoln**

The study shown above is somewhat similar to Student School Activities Attendance System through Biometric Technology and Supreme Student Government Fines Collection Management System however, the difference among the other given research and this study it has fines management system which can automatically compute the total fines of the students.

With this kind of technology sided by innovation, everyone is given a chance to save time and have an accurate result without wasting strength at all. Because in this millennial where we belong, there are just few who are not reached by technology. But hopefully with the rapid progression of technology we can extend a hand to pull them out from their shells and let them experience the advanced world.

## **Chapter 3**

### **RESEARCH METHODOLOGY**

This chapter presents the methodology of the study. It involves the discussion of the research method, research environment, project developmental processes, project design, data flow diagram, system theory and concept, project testing method and procedure, project evaluation procedure and calendar of activities.

#### **Method Used**

The researchers used the developmental research method. Developmental research was defined as the systematic study of designing, developing and evaluating structural programs, processes and products that must meet the criteria of internal consistency and effectiveness. It was particularly important in the field of instructional technology. The most common types of developmental research involved situation in which the product developmental process was analyzed and described, and the final product was evaluated. A fundamental research refers to the practices and descriptions of design and development procedural models refer to theory. It has contributed much to the growth of the field as a whole, often serving as a basis for model construction and theorizing.

#### **Research Environment**

The researchers conducted the study at Jose Rizal Memorial State University – Main Campus. After gathering data and information, the researchers set the time and the right place for the study to get started. The researchers selected the place where equipment can easily be available when needed for the project and

of course with the internet connection for online research of related information. Mostly a place had personal computer or either a laptop and other devices which can be used for data processing in making the project.

### **System Project Design**

The system project design is a diagram that defines the boundary between the system, or a part of a system, and its environment showing the entities that interact with it. This diagram is high level view of a system.

The first module is the fingerprint scanner, the finger print scanner is one of the tool in registering the student because this tool gets the fingerprint of the student. The second module is the server or the database, the database contains all the record of the students such as students profile, student's fines and etc. The third module is the PC and Fingerprint scanner, this modules task is to get the attendance of the student.

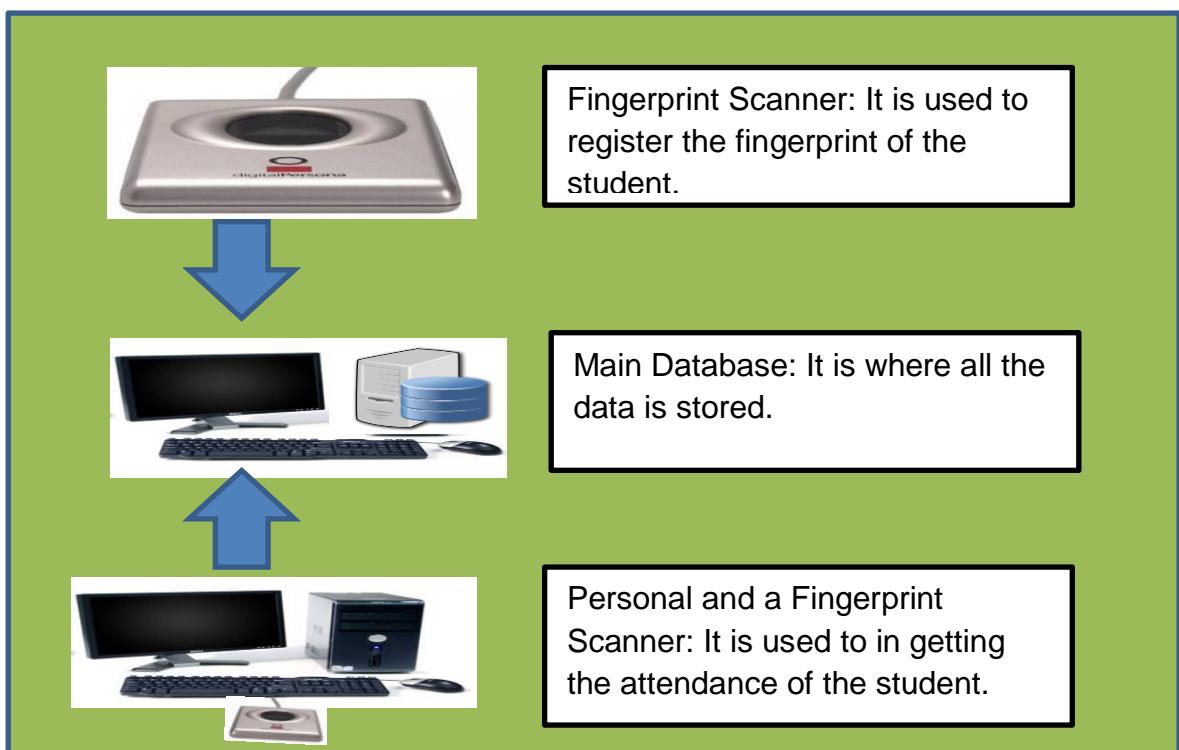


Figure 11. System Project Design.

## Project Developmental Process

The project developmental process was initiated in response to an identified need in the transportation system. It covers the range of activities extending from identification of a project need to a finished set of contract plans and to construct. According to the explanation the Project Life Cycle refers to a logical sequence of activities to accomplish the project's goal or objectives.

It consists of events which are necessary to complete the project while the System Development Life Cycle was used to develop and maintain Information Systems. It focuses on the software engineering phases, processes, tools, techniques for building and/or implementing the IT solution. The phases are: Analysis, Design, Development, Integration, Testing and Implementation.

**Data Gathering.** The researchers conducted a study on how the attendance system using fingerprint scanner to operate in Jose Rizal Memorial State University – Main Campus, Dapitan City. The researchers conducted interviews and sought advice from reliable personalities like for example instructors, dean in every college, the Supreme Student Government officers and also the students. The researchers gathered the needed information from the internet which was used as bases to create the Student Activity Attendance Using Fingerprint Scanner and SSG Fines Collection Management System.

During our time, dissertation writing is perceived to be a simple research process converted to a narrative essay. It is true that writing such a project is easy if you have the right resources but one of the most problematic aspects in writing such dissertation paper is the aspect of data gathering procedure

Usually it involves statistics and knowledge about using it. This is the major dilemma of the students when it comes to research paper writing .There are different data gathering procedure that you can use for a term paper.

It will depend on your convenience and the ease in gathering the required details that you can use for the research results. In this study Student Activity Attendance and fines management system using Biometric and fines management system and we use the interview method because one of the benefits you can gather raw and reliable data direct from the subjects. Although it is time consuming, you can still have very credible result from this data gathering procedure.

**Requirement Analysis.** After gathering all the needed information and requirements for the study, the researcher made a thorough analysis of the requirements and proceeded directly on designing the project. This involved problem analysis and making the algorithm to answer the current problems of the study. The following hardware and software requirements below served as the tools in project development.

#### **A.Hardware Requirements in Project Development**

- Fingerprint Scanner
- Personal Computer/Laptop
- Standard Intel i3 ® Pentium ® IV Processor
- Motherboard: 1Gig DDR2 PCI-E Video card
- At least DDR2Memory: 2Gig or Higher

#### **B. Software Requirements**

- Windows 7 or Higher

- Visual basic 6
- Database(SQL LITE)

### **C. End User Hardware Requirements**

- Any Windows 7/8 compatible computer
- Fingerprint Scanner

**Designing.** This process involved the UML (Unified Modeling Language), DFD (Data Flow Diagram), Entity Relational Diagram, HIPO (Hierarchical Input Process Output), and lastly the System flowchart. This process was The Presentation of the abstract representation of the project.

### **A.UNIFIED MODELING LANGUAGE**

UML is a standard language for specifying, visualizing, constructing, documenting, communication, and business modeling. This is a standard notation for the modeling of real-world objects as a first step in developing an object-oriented design methodology. This is also a robust notation that can express information gathered throughout a project's lifecycle and can be used as an effective data modeling tool as well as an object modeling tool.

A use case describes a sequence of actions that provide something of measurable value to an actor and is drawn as a horizontal ellipse. The System boundary indicates the scope of the system. Anything within the box represents functionality that is in scope of the study. A use case is initiated by an actor to perform a required task. An actor is a person, organization, or external system that plays a role in one or more interactions with the system. Most of the time, an actor is a person, but that doesn't have to be the case. Sometimes, an actor can be another computer system -- for example, when an external system requires a

roll-up report for processing, one might view that system as an actor, and the generation of that roll-up report as a use case.

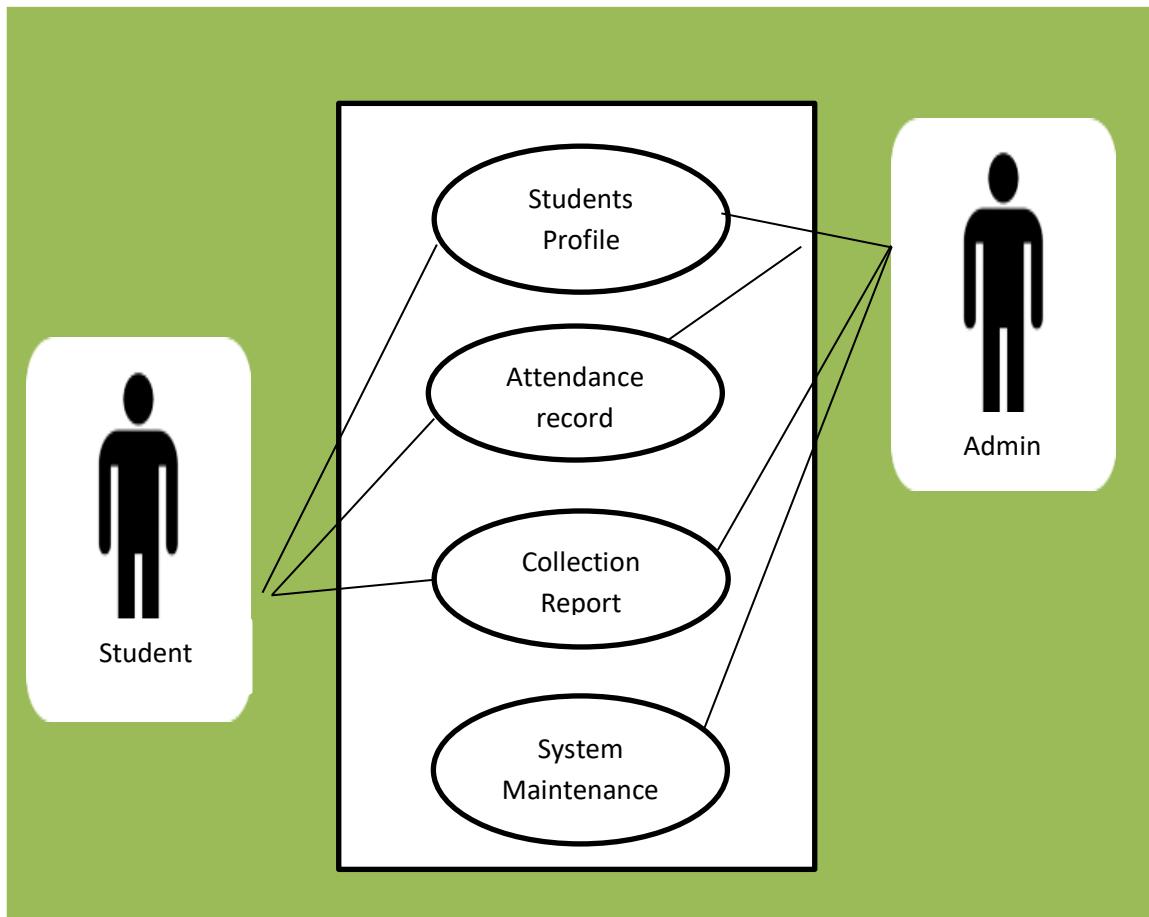


Figure 12. Use Case Diagram

Figure 11. Is the Use Case Diagram of Student School Activities Attendance System Trough Biometric Technology and Supreme Student Government Fines Collection that has two actors: the Admin and the costumers. The Admin has four use cases the Collection report, System Maintenance, Attendance Record, and lastly the Students Profile. While the Students has three use cases, the Students Profile, Attendance Record, and Collection Report, these three use cases are included so that the students can see his/her

attendance record also the Collection Report if student have a doubt why he or she have a fines also it can prevent error and misunderstanding. System Maintenance is no longer included to the use cases of the student because only the Admin or the SSG Officers will do. System maintenance is really important so that the proposed System can last longer and also it can prevent error.

### UML- Activity Diagram

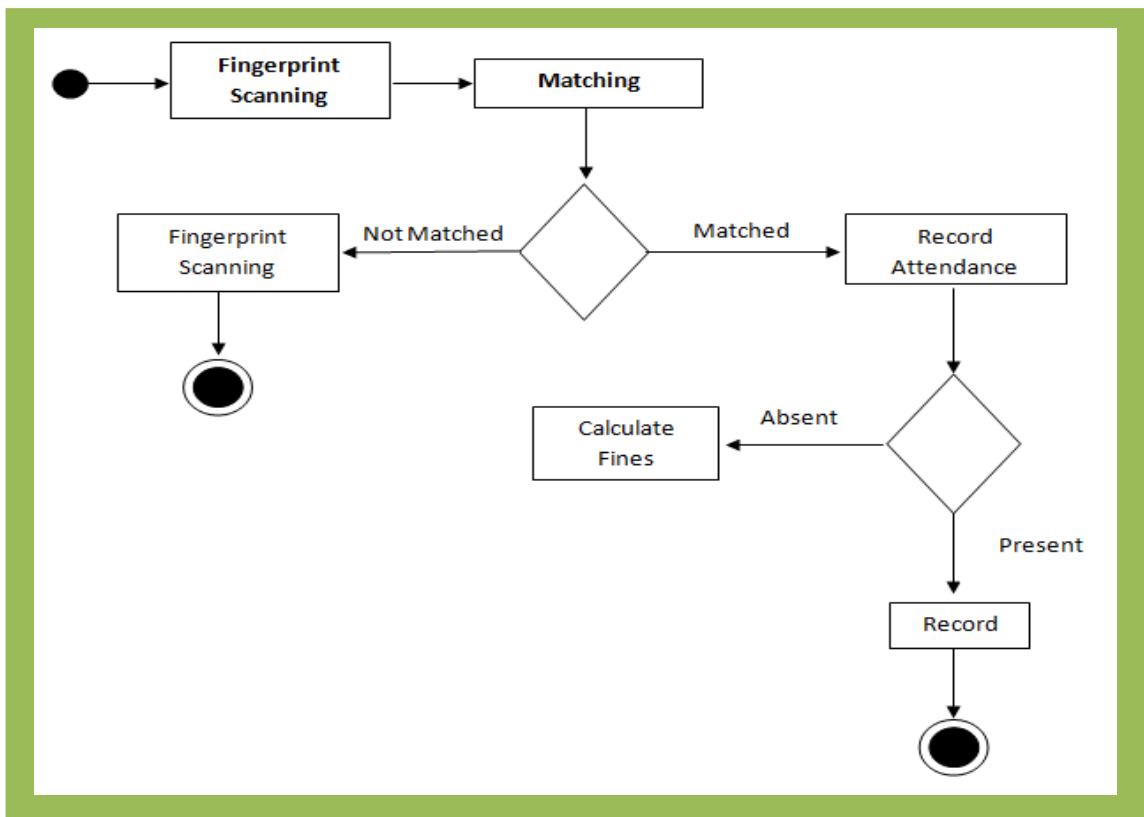


Figure 13. Activity Diagram

Activity diagrams describe the workflow behaviour of a system. It is also another important diagram in UML to describe dynamic aspects of the system. Activity diagram is basically a flow chart that presents the flow from one activity to another activity. The activity can be described as an operation of the system.

So the control flow was drawn from one operation to another. This flow can be sequential, branched or concurrent. Activity diagrams deal with all type of flow control by using different elements like fork, join etc.

### **UML-Class Diagram**

a class diagram in the Unified Modeling Language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, operations (or methods), and the relationships among objects.

The figure below shows the Class Diagram of the system. It demonstrates the interrelationship, the operators, the attributes and the classes of the system. It has the Student Information, the main database and the Administrator. The student information includes ID number, Username, Password, Department and Course this are the necessary information needed in the system.

Then the main database holds the whole data such as the students information, Events, Course's, Departments, and The collection report but the most important is the total fines of the students must been record and also the dates of the events were it happened because it is possible that the student will ask the SSG officers when the student made their absences, The types of the events whether it is general and non-general event, non-general events are events that focuses in one department only while general-event includes the whole campus or the entire JRMSU Campuses. And then the administrator serve as to view, updates, records, and print all the information after scanning their fingerprint and then they automatically records all the events of the school by the SSG. To view the total fines, display the all reports and then print.

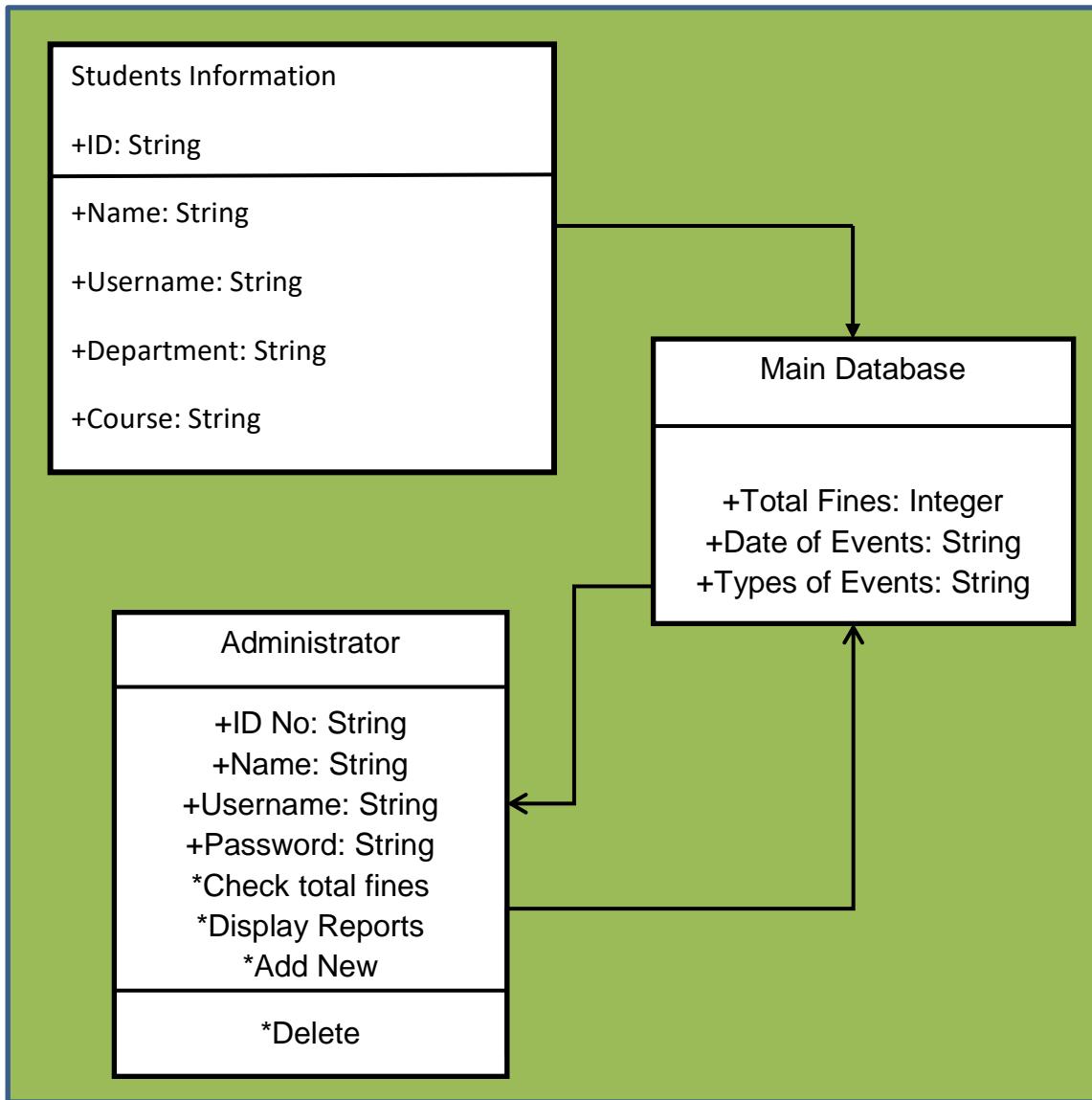


Figure 14. Class Diagram

### Sequence Diagram

The Figure below shows the diagram of the system. In student Information, after swiping their ID number there is a process confirmation of information from the main database that will occur, then if the students try to look there fines, there is a confirmation of fines of the students as stored in the main database process again and then the students can view the types of events as

well. From the main database to the administrator the students can find the confirmed updates. It also has the approved total fines and all the required/needed for each student, activity department and/or course.

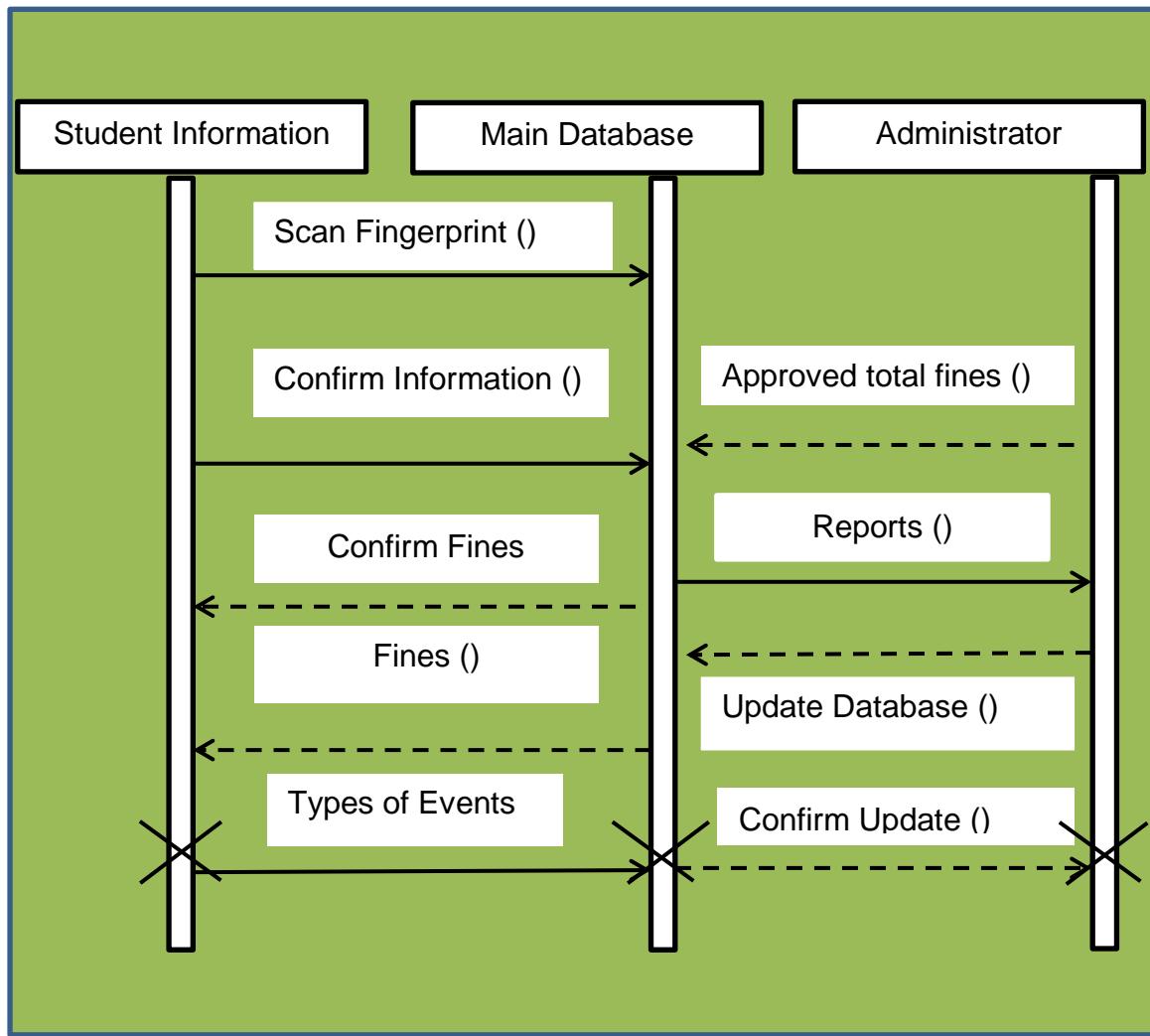


Figure 15. Sequence Diagram

## B. DATA FLOW DIAGRAM

The Data flow Diagram is a picture of the movement of data between external entities and the processes and data stores within a system. It is a graphical tool that allows system analysts (and system users) to depict the flow of data in an information system. This is one of the methods that system analysts

use to collect information necessary to determine information system requirements.

### Context Diagram

A data flow diagram (DFD) of the scope of an organizational system that shows the system boundaries, external entities that interact with the system and the major information flows between the entities and the system.

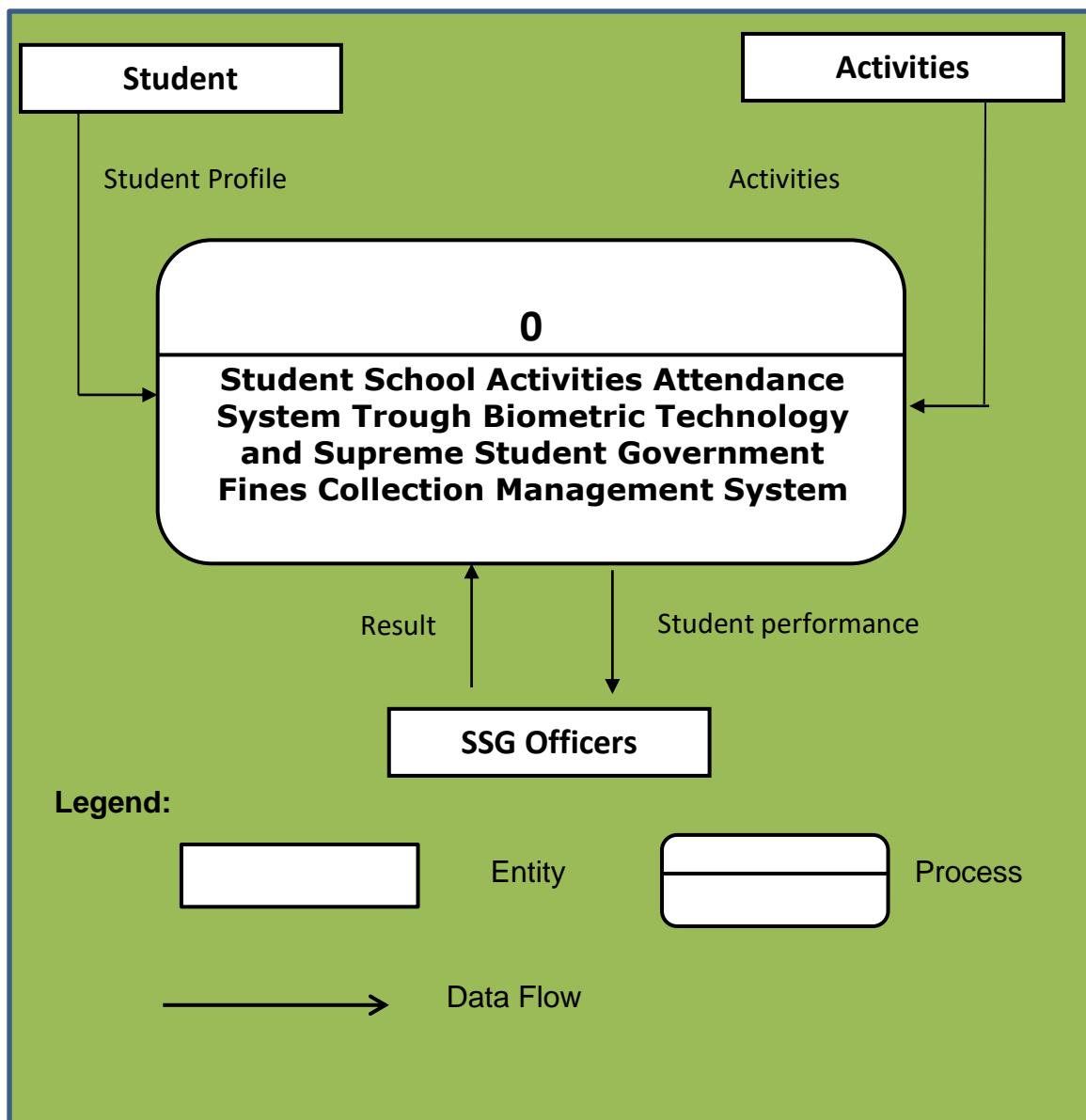


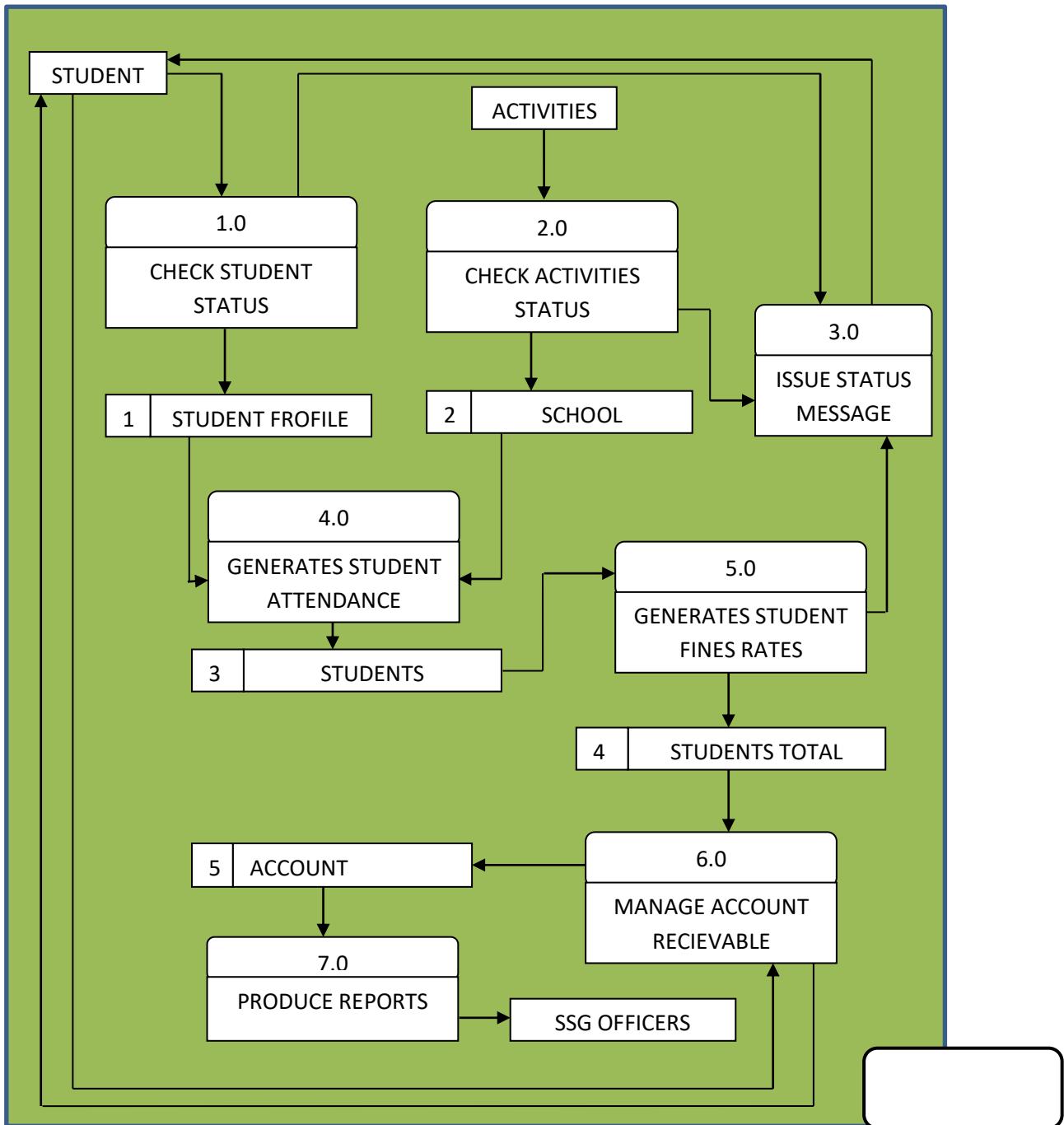
Figure 16. Context Diagram

The context diagram is a data flow diagram (DFD) of the scope of an organizational system that shows the system boundaries and external entities that interact with the system and major information flows between entities and the system. In software engineering and systems engineering is diagram that defines the boundary between the system, or part of a system, and its environment, showing the entities that interact with it. This diagram is high level view of a system.

It is similar to a block diagram. Figure 15 shows the process of the system which called the context diagram. First step is a student registration. The students will have to use their fingerprint to check the attendance in every activities held in the campus. The system records the time for in and out of the activities. Also the system has the timer set by the admin for the attendance. The second step is the school activities in which the students can search the

**Figure 15. Context Diagram**      ons of the students about the attendance can be answered by the use of the system. In there, the student will see the date and time of in and out of the activities the students attended. In order to have satisfaction for the students, each student has the right to check the files so that the students will no longer have doubts about the attendance of the school activities. The third and the last step is the generated report. This shows the process in which the admin involves. This generates the total fines the students will have to pay which comes from the fingerprint recorded during the activities of the campus. This shows the complete information of the students and the

performance updates by the admin and will be given to all students of the campus.



**Figure 17. Level-0 Diagram**

**Legend**



Entity



Process



### C. ENTITY RELATIONSHIP DIAGRAM

Figure 16 shows the components and the processes of the system on how it is being connected to each other and how this system function base on its features. The first entity is the student registration which registers their thumb mark. It is connected to the second entity which is the student profile. The student record which can be view all the attended activities attendance and fines collection. The third entity is the school activities that contained the general and non-general but compulsory, that is also connected to the server. The fourth entity is to total fines which is approved/not approved and also connected to the status of the students whether paid/unpaid. Then the student attendance which is check/uncheck that is connected to the school activities.

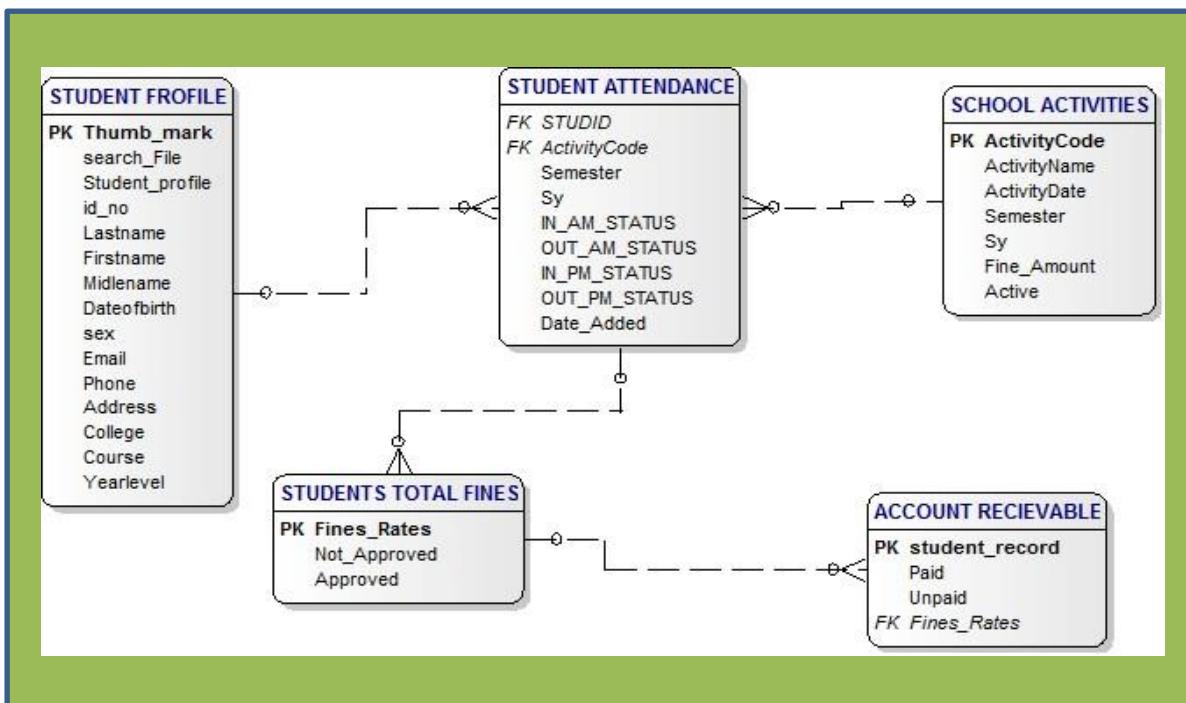
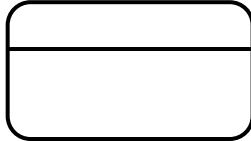


Figure. 18 Entity Relationship Diagram

**Legend:**

Table

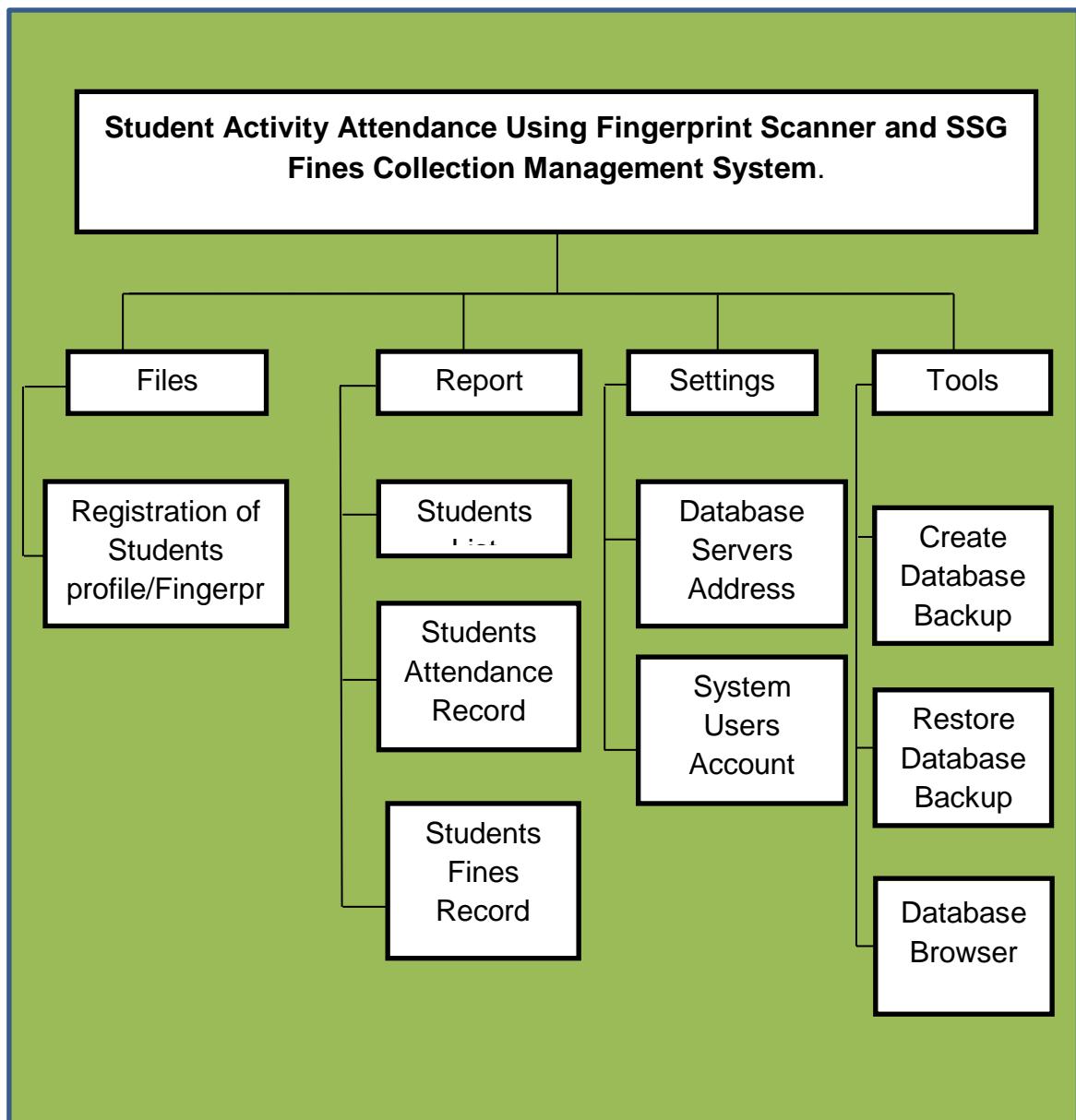


Data Flow

#### **D. Hierarchical Input Process Output**

The HIPO or the (Hierarchical Input Process Output) diagram is a combination of two organized method to analyze the system and provide the means of documentation. It was used to develop requirements, construct the design, and support implementation of an expert system to demonstrate automated rendezvous. Verification was then conducted systematically because of the method of design and implementation. HIPO model was developed by IBM in year 1970. HIPO diagram represents the hierarchy of modules in the software system. Analyst uses HIPO diagram in order to obtain high-level view of system functions. It decomposes functions into sub-functions in a hierarchical manner. It depicts the functions performed by system. HIPO diagrams are good for documentation purpose. Their graphical representation makes it easier for designers and managers to get the pictorial idea of the system structure. In contrast to IPO (Input Process Output) diagram, which depicts the flow of control and data in a module, HIPO does not provide any information about data flow or control flow. The overall design of the system is documented using HIPO charts or structure charts. The structure chart is similar in appearance to an organizational chart, but has been modified to show additional detail. In figure 18, there are four functions: the Files, Report, Settings and Tools. Each functions has its sub-functions. The Files involves the registration of the students and the fingerprints. The next is Report which gives and shows the students list and all

the attendance records with the complete information about the fines to be collected by the admin. Then the Settings which includes the database servers and the system user account. And lastly, the Tools the enables the admin to create database backup, restore database backup and shows the database browser.



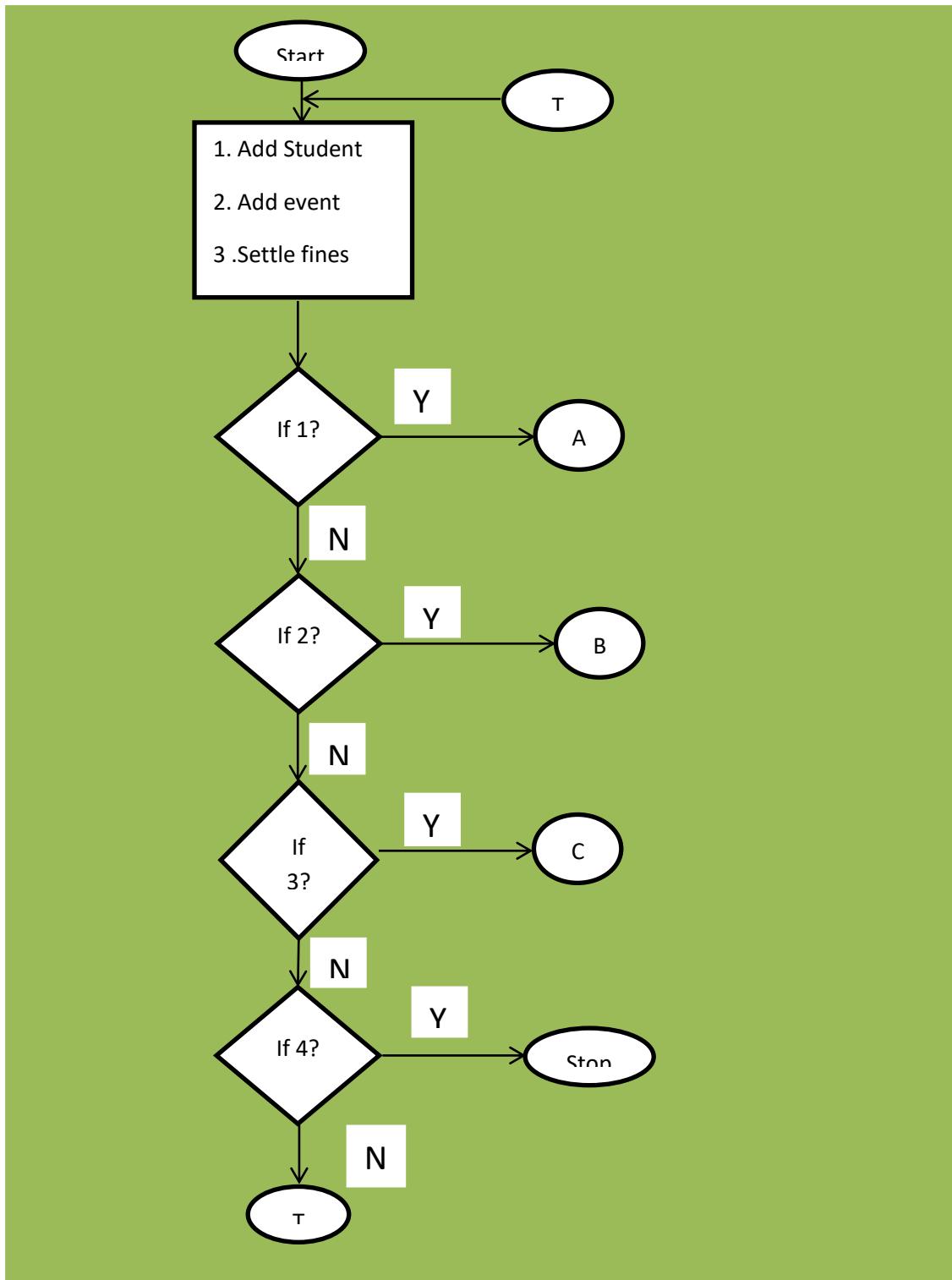
**Figure 19.Hierarchical Input Process Output**

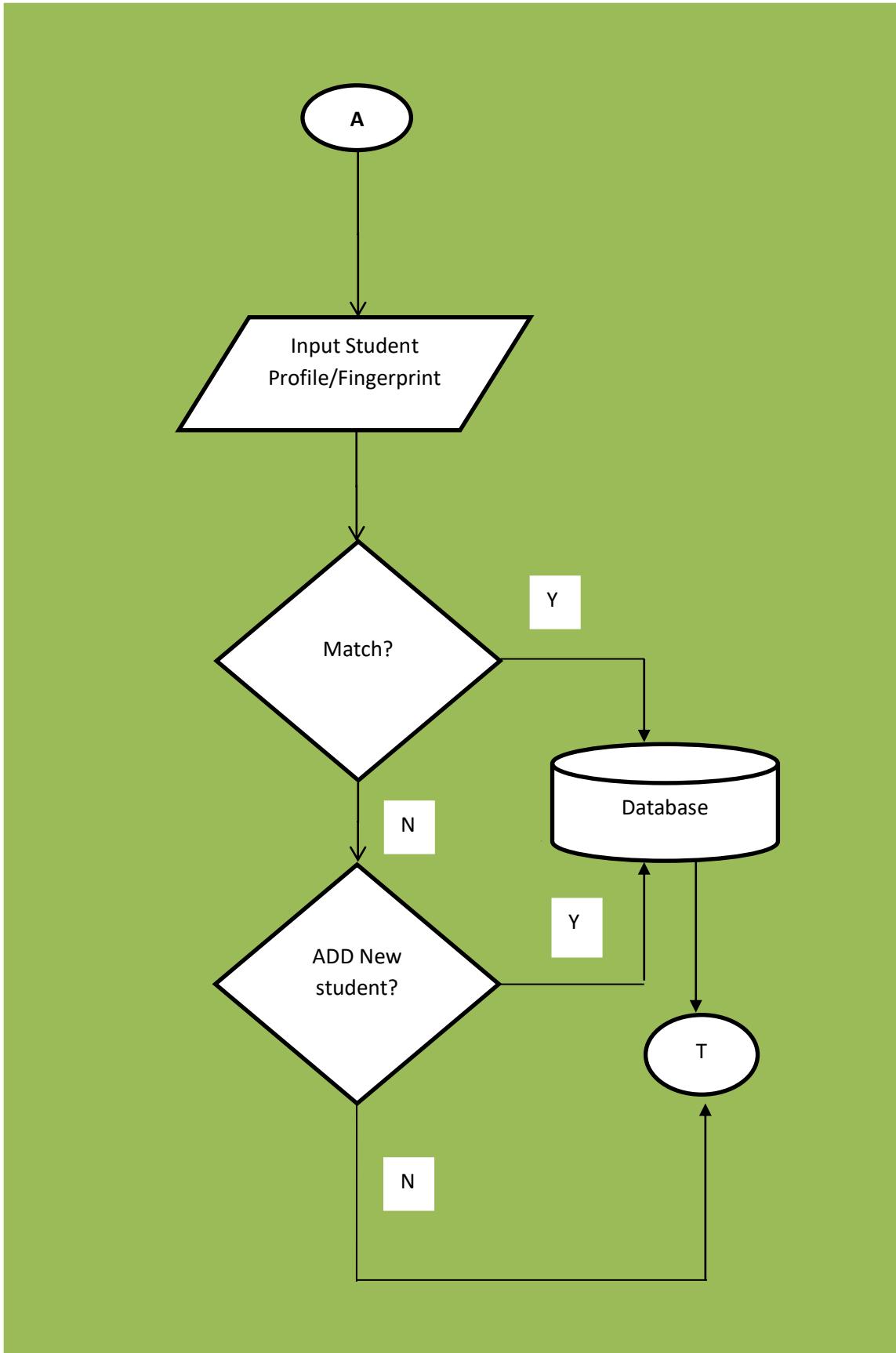
## E. System Flow Chart

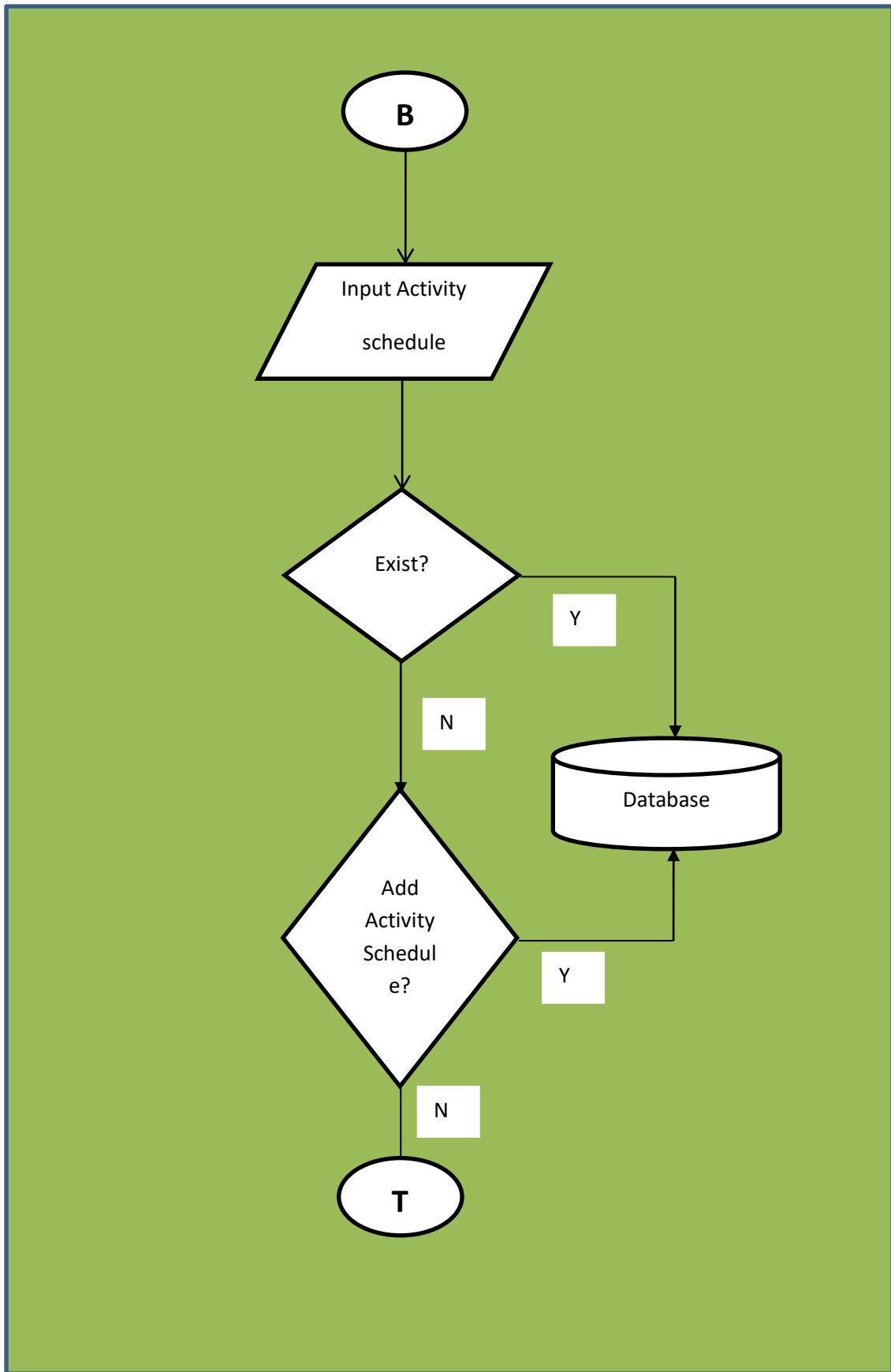
Figure 19 and 20 shows the process of the proposed system Student Activity Attendance Using Fingerprint Scanner and SSG Fines Collection Management System. The first step is to put the fingerprint of the student in the fingerprint scanner. Second is for the checking of attendance and settling of students fines. After scanning the fingerprint of the Student attendance will be automatically checked and his record will be updated. And if it is for the settling of fines specially during the signing of clearance, also the guest or the assigned Attendance Checker will then search the student's record. When the student record is found the student fines status will display and the attendance checker will inform and show the exact amount and status of her/his fines. If the attendance checker find out that the student's fine is not yet paid, and if the students want to clear/pay/ his or her fines fully, the attendance checker will ask for its payments and then he will update the student's record, mark it as "Student Fines Cleared" and sign the student's clearance automatically. Otherwise, if the student only wants to know the amount of his fines are or will pay his fines but not in full amount, then the attendance checker will search his records and show it to him but with the status of "Student Not Cleared" and will not sign his clearance.

In this system, the student can also view his records anytime if he wants to. He may view the number of his absences with the activity name and its corresponding amount of fine impulse so that he will not be doubtful on why he committed that amount of fine. Through this system, the students can also view his past records if needed. Information in this system are surely protected since

the attendance checkers or the guest is not allowed to touch even a single record.







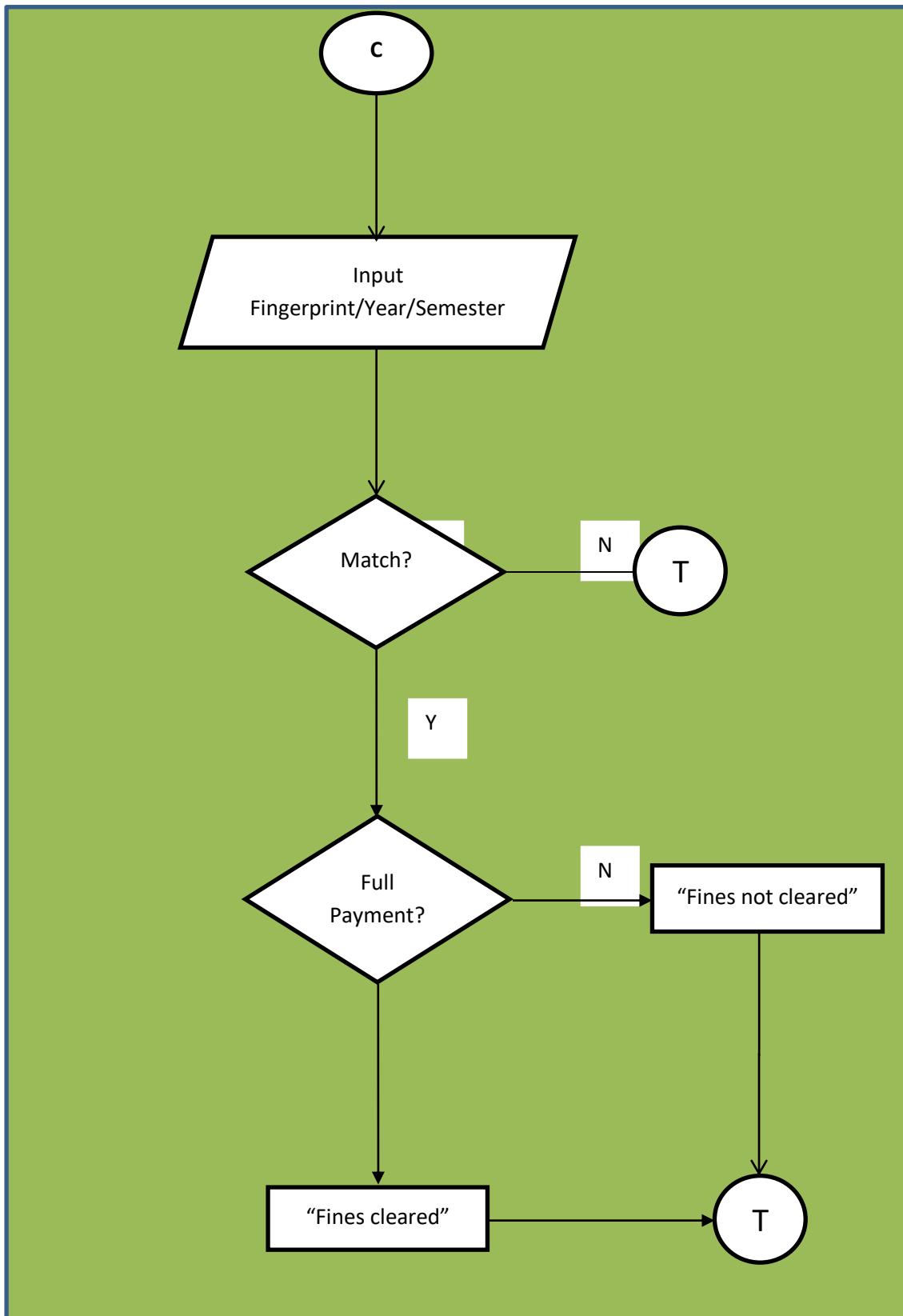


Figure 19. System Flowchart.

**Coding.** is often simply called Computer Programming. On this process, researchers made the actual programming or wrote a set of instruction or commands.

The following are the method and techniques of the system:

- Looping – structures allow you to run one or more lines of code respectively. You can repeat the statements in a loop structure until a condition is True, until a condition is False, a specified number of times, or once for each element in a collection.
- Function – a piece of code which takes one or more input in the form of parameter and does some processing and returns a value. It is a name given to a block of code that can be executed whenever needed.
- Arrays – a systematic arrangement of objects, usually in rows and columns. It is a special variable, which can hold more than one value at a time.

**Testing and Evaluation.** In this process, the researchers with the concern of the user of the software test and evaluate the program to identify the correctness, completeness, security and quality of the developed computer software. The researchers used the process of investigation approach, “the process of questioning a product in order to evaluate it”, where the “questions” are things the tester tries to do with the product, and the product answers with the behavior in reaction to the probing test. During the testing, the users also considered the common quality attributes of the software that include functionality, reliability, efficiency, and security of the “Students Activities Attendance using Fingerprint Scanner and SSG Fines Collection Management System”.

## **Software Evaluation Procedure**

The system software can only be met by the means of thorough test and evaluation. The system developers also believed that all software, either system or application, cannot be implemented without proper testing and evaluation before its operation. The process could help the researchers in attaining the finest output. The respondents of the system study evaluated it carefully, the selected respondents included IT Students, IT Professionals and SSG Officers

The Software quality Factors evaluated by the respondents were follows:

### **Functionality**

A set of attributes that bear on the existence of a set of functions and their specified properties. The functions are those that satisfy stated or implied needs with the following criteria:

- .Compliance of its user needs
- Compatibility to the other system
- Fitness of its intended use
- Provide a useful, time-saving and acceptably accurate
- Solution to a specified task or program
- Minimization of its run-time error
- Speed in Data Processing
- Detection of error
- Intended use of the software

### **Ranges Of Mean**

4.21- 5.00

### **Descriptive Rating**

Very Much Functional

3.41- 4.20	Much Functional
2.61- 3.40	Functional
1.81- 2.60	Fairly Functional
1.00- 1.80	Not Functional

### **Reliability**

A set of attributes that bear on the capability of software to maintain its level of performance under stated conditions for a stated period of time. The functions are those that satisfy stated or implied needs with the following criteria:

- Exactness of Information divided within the program
- Back-up files that created by the system
- Process performed by the system
- Stability of the system
- Error tolerance
- Ease in data recovery
- Accuracy of data capture
- Accuracy of Results
- Understandability of output
- Completeness of the system

<b>Ranges Of Mean</b>	<b>Descriptive Rating</b>
4.21- 5.00	Very Much Reliable
3.41- 4.20	Much Reliable
2.61- 3.40	Reliable
1.81- 2.60	Fairly Reliable

1.00- 1.80	Not Reliable
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### **Portability**

A set of attributes that bear on the ability of software to be transferred from one environment to another. The functions are those that satisfy stated or implied needs with the following criteria:

- .The system can be easily installed
- The system does not require more hardware requirements
- The system can easily adapt to other operating systems.
- The backup of the system can easily be installed
- System supports on maximum hardware requirements
- .User capability/capacity
- Its intended application
- Adaptability to new version of system requirements
- Adaptability to other environment

<b>Ranges Of Mean</b>	<b>Descriptive Rating</b>
4.21- 5.00	Very Much Portable
3.41- 4.20	Much Portable
2.61- 3.40	Portable
1.81- 2.60	Fairly Portable
1.00- 1.80	Not Portable

### **Usability**

A set of attributes that bear on the effort needed for use, and on the individual assessment of such use, by a stated or implied set of users.

The functions are those that satisfy stated or implied needs with the following criteria:

- User friendly
- The user is satisfied with the system
- Simple driven program
- Easy to accomplish the basic task through graphical design
- Provide a detailed system design to the user
- Wrong key input errors detection
- Data storage
- Simple manipulation features
- Tolerable difficulty level
- Production of data output

<b>Ranges Of Mean</b>	<b>Descriptive Rating</b>
4.21- 5.00	Very Much Usable
3.41- 4.20	Much Usable
2.61- 3.40	Usable
1.81- 2.60	Fairly Usable
1.00- 1.80	Not Usable

### **Efficiency**

A set of attributes that bear on the relationship between the level of performance of the software and the amount of resources used, under stated conditions. The functions are those that satisfy stated or implied needs with the following criteria:

- The system needs minimum requirements
- The system can accommodate many transactions at the same time.
- The system can retrieve data faster
- Compatibility with other device
- Support a number of user's
- Speed of data capture and retrieval
- Speed of navigation of production of outputs
- Support on minimum facilities
- Hardware utilization
- Compatibility with interfaced devices

<b>Ranges Of Mean</b>	<b>Descriptive Rating</b>
4.21- 5.00	Very Much Efficient
3.41- 4.20	Much Efficient
2.61- 3.40	Efficient
1.81- 2.60	Fairly Efficient
1.00- 1.80	Not Efficient

### **Maintainability**

A set of attributes that bear on the effort needed to make specified modifications. The functions are those that satisfy stated or implied needs with the following criteria:

- The system can diagnose system failure.
- The system can be configured easily.

- The system can function even though there are changes made by the developer.
- . Flexibility of system modification.
- Correction of program defects.
- Accessibility for maintenance.
- Compliance of concurrent system requirements.
- Improving performance.
- Increase program capabilities.
- Advance features for recent technology.

<b>Ranges Of Mean</b>	<b>Descriptive Rating</b>
4.21- 5.00	Very Much Maintainable
3.41- 4.20	Much Maintainable
2.61- 3.40	Maintainable
1.81- 2.60	Fairly Maintainable
1.00- 1.80	Not Maintainable

### **Project Testing Method/Procedure**

Upon testing the system, similar testing method was adopted. Both manual and computerized processes were run together until such time the “Students Activities Attendance using Fingerprint Scanner and SSG Fines Collection Management System” was running accurately.

### **Software Testing Procedure**

The result of it will determine whether or not the researchers continue the study.

1. Set-up the system and check if it is properly working.

2. Load all the necessary data needed for the operation, then check the default values in setting and maintenance and make some correction if necessary.

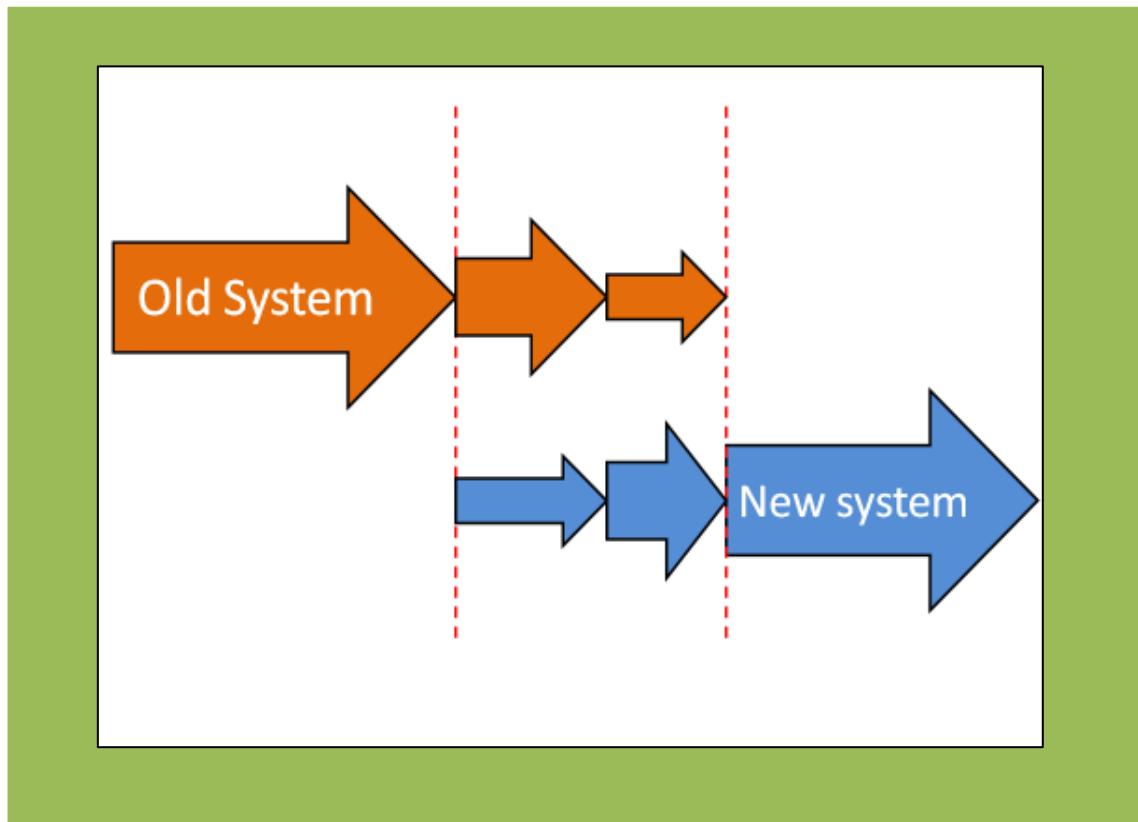
3. Try at least 2 users, using "Students Activities Attendance using Fingerprint Scanner and SSG Fines Collection Management System", let them use the system whether it will work the way they want it to happen.

4. The actual operation begins with supervision of the researchers. Testing method will be applied in a computerized process for at least 1 month.

5. After 3 hours, the researchers will conduct an evaluation about the system software.

### **Implementation.**

The procedure is to run the existing system alongside with the new system for a certain period of time. With this approach, the outputs or behavior of each system can be compared to make sure that the new system is performing as expected. A method used by the researchers in implementing the system is the **Parallel Method of Implementation** whereby that during changeover, a new system and an existing system runs side by side. To put the same data and perform the same processes, compare their output and prove the reliability of the new system. If the new system is accepted, the existing system will stop running and will be replaced by the new one. According to this method it cannot be presented without paying attention to the steps before the actual conversion, namely the construction of the conversion scenario and the identification and testing of all requirements of a system in order to reduce risk. The old and new system run simultaneously for some period of time .



**Figure 21. Parallel Method of System Implementation**

The researchers completed the system and this “Students Activities Attendance using Fingerprint Scanner and SSG Fines Collection Management System” was installed on the computer which is parallel adoption method. It is a method for transferring between previous systems to a target system in an organization. The researchers tested each module to show its function and to demonstrate the task that can be executed by these modules.

This includes the following:

- Run the “Students Activities Attendance using Fingerprint Scanner and SSG Fines Collection Management System”
  - Add student
  - Attendance

- Settle fines

**Documentation.** The researchers made documentation after data gathering, requirement analysis, designing, coding, testing and evaluation of the publication and realization of the study. The researchers kept the data from the beginning of the creation of the system project. The procedures in completing the project were kept as a referral in times of upgrading the software. Those files would help to recall all the input modules which are very important.

**System Concept.** Students Activities Attendance using Fingerprint Scanner and SSG Fines Collection Management System, with the use of fingerprint scanner, was aiming to improve the attendance System more securable and reliable in JRMSU main campus. .

**Table 1.Respondents of the Study**

Number of Respondents	Frequency	Percentage
IT Students	15	50%
IT Professionals	5	16.67%
SSG Officers/CAS SG	10	33.33%
<b>TOTAL</b>	<b>30</b>	<b>100%</b>

There were Thirty (30) total respondents of the study and were classified into three (3) groups of elevators. The first group comprises of the IT Students of the JRMSU Main Campus, Dapitan City, the second group comprises of the IT Professionals of the same campus, the third group comprises of SSG officers. The respondents were given questionnaires for them to provide information intended for the study.

There were six (6) each of the system evaluation criterion namely functionality, reliability, usability, efficiency, maintainability, Acceptability .A total of fifteen (15) or 50% IT Students. Six (6) criterions for the functionality, reliability, usability, efficiency, maintainability, acceptability. A total of five (5) or 16.67% IT Professionals were utilized from JRMSU Main Campus Dapitan. Six (6) criterions for functionality, reliability, usability, efficiency, maintainability, acceptability total of ten (10) or 33.33% from the SSG department. There were thirty (30) in totalities as respondents of the study.

### **Sampling and Design Technique**

The researchers will use QOUTA sampling quota sampling is A sampling method of gathering representative data from a group. As opposed to random sampling, quota sampling requires that representative individuals are chosen out of a specific subgroup.

### **Statistical Tools**

The mean was used to measure the effectiveness of the Students Activities Attendance using Fingerprint Scanner and SSG Fines Collection Management System of functionality, reliability, portability, maintainability, usability, efficiency.

### **FORMULA:**

$$\text{Weighted Mean} = \frac{\sum Mm}{N}$$

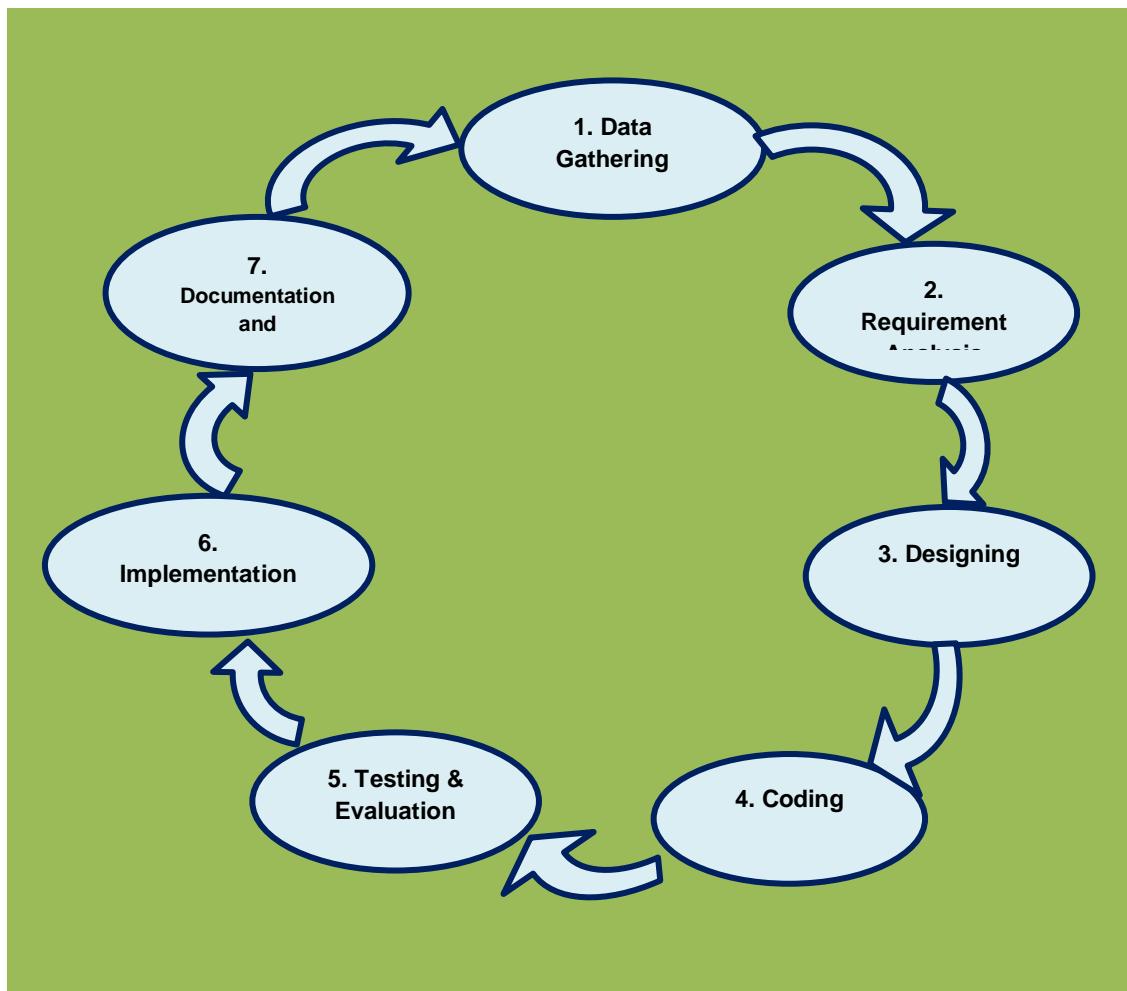
Where M= Numerical Rating

N= No. of End User

m= No. Of Numerical Rating

## Project Development Life Cycle

The project development life cycle was a conceptual model used in project management that describes the stages involved in an information system development project, from an initial feasibility study through maintenance of the completed application. Each phase in the life cycle has its own process and deliverables that feed into the next phase. There are typically 7 phases starting with analysis and requirements gathering and ending with the implementation. The feedback of the user would tell the performance of the system study.



**Figure 22. Project Development System Cycle**

## Calendar of Activities

Calendar of Activities refers to a series or list of events and activities which took place on particular dates, and which were important for a particular study. This was done by giving names to periods of time, days, weeks, months, and years.

**Table 2. Calendar Of Activities**

Activities	2 <sup>nd</sup> Semester S.Y. 2016-2017																			
	JAN				FEB				MAR				APR				MAY			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1.Data Gathering	█	█	█	█																
2.Software Requirements Analysis					█															
3.Designing						█	█	█	█											
4.Coding									█	█	█	█								
5.Testing And Evaluation									█	█	█	█								
6.Implementation										█	█	█					█	█	█	█
7.Documentation	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

Table 2. shows the calendar of activities of the researchers from the beginning of the project until the end. The gathering of data of the Students Activities Attendance using Fingerprint Scanner and SSG Fines Collection Management System started from the first to the last week of January. It took almost one month to gather all the needed data for the system study. After all the necessary data were gathered, the researchers divided themselves to work on

software requirements analysis from the last week of January until the last week of February. From the second week of February the researchers started to design the proposed system while working for the software requirements analysis until the second week of March. While the researchers were designing the researchers decided to do the coding on the last week of March to the third week of April. The testing and evaluation were started from the first week of March until the last week of April. The implementation of the system was done the whole month of May. The last activity the researchers were working on is the documentation of the proposed system “Students Activities Attendance using Fingerprint Scanner and SSG Fines Collection Management System” from the first week of January to the last week of May.

## **Chapter 4**

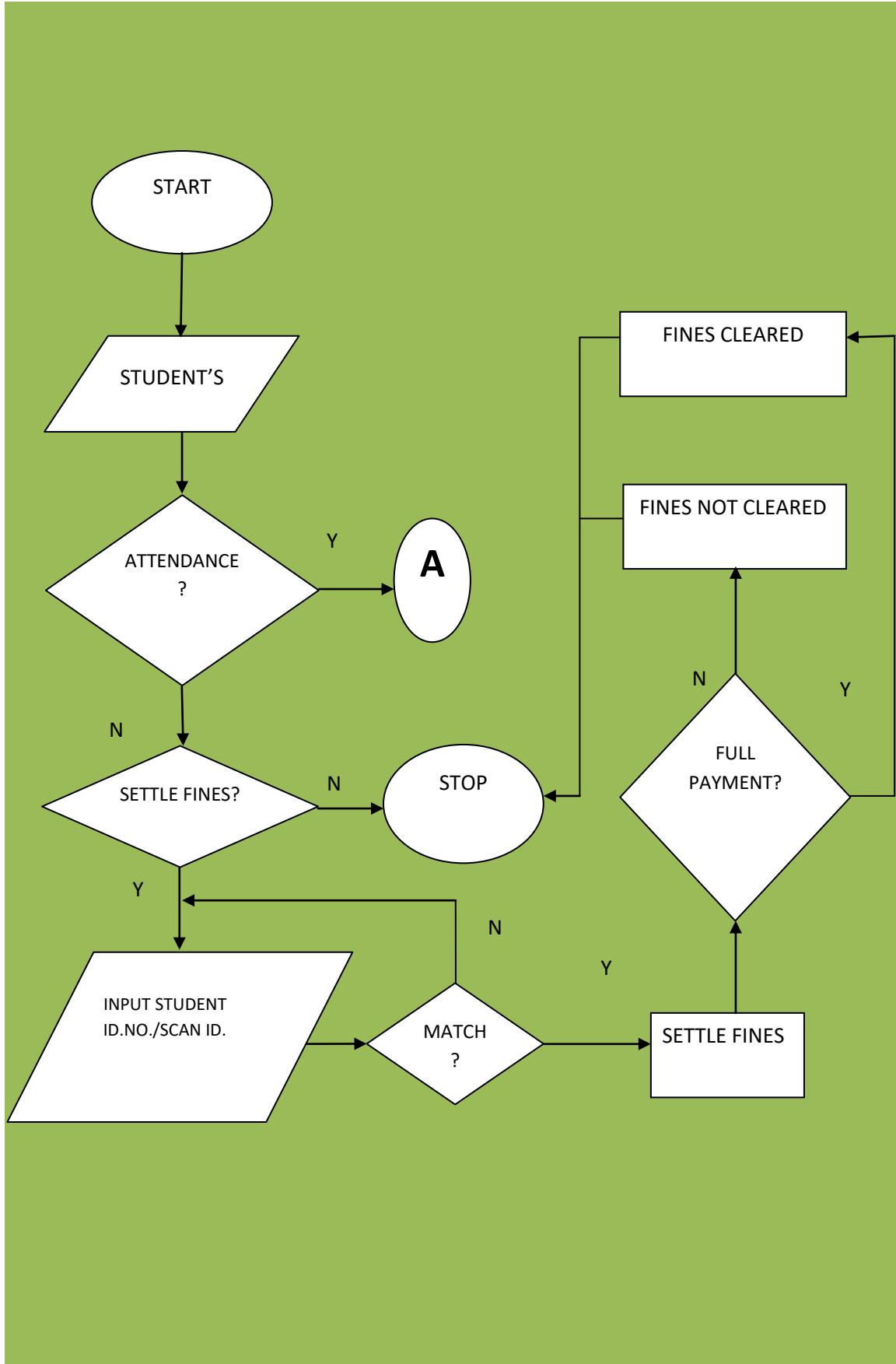
### **RESULTS AND DISCUSSIONS**

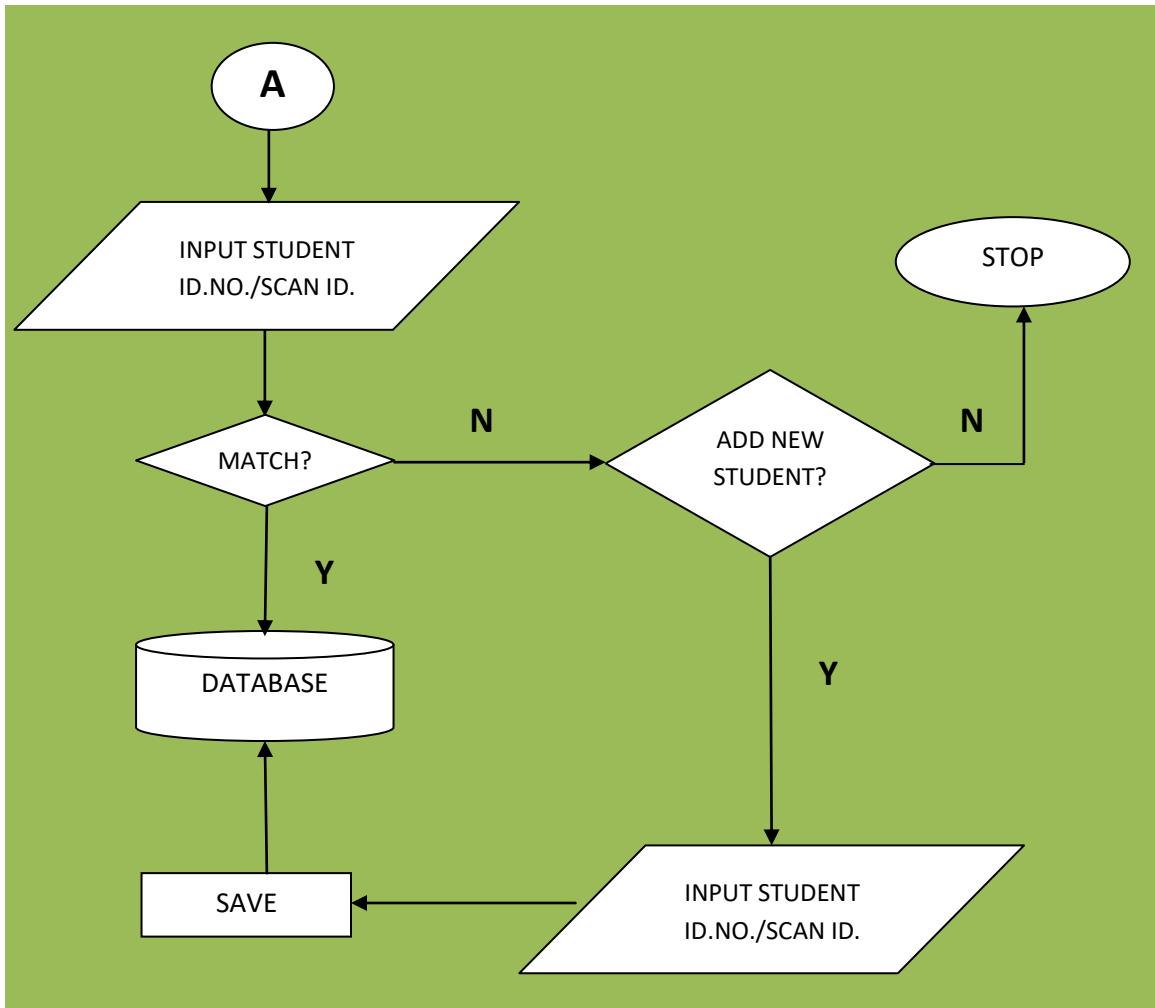
This chapter provides the solution and discussion about the specific problems of the study.

#### **1. What is the current system in Jose Rizal Memorial State University in terms of Student School Activities Attendance System Through Biometric Technology and Supreme Student Government Fines Collection Management System?**

The current system for the student school activities in Jose Rizal Memorial State University is using a barcode scanner when checking the attendance during the school activities. During the activity, with the assistance of the SSG officers, the students will scan the IDs to have attendance. If the ID of the student exists then it will be recorded and saved automatically save to the database. If the ID doesn't exist then the user or the SSG officer will then add and register a new student and then save. For student who will settle for the fines, the SSG officer must scan the IDs for checking if the student exists, if does then proceed for settling and for the payment. If the student wants to pay all the fines then the fines will be cleared in the database.

Figure 22 will show the flowchart of the current system of Jose Rizal Memorial State University in terms of school activities and fines collection management. It shows the flow from the start until the end process of the system. It also shows and proves that student's ID is the most important during the attendance because without it the student cannot proceed to the attendance.





**Figure 23. Student School Activities Attendance System Flowchart**

2. **What are the components involved in developing an attendance system using fingerprint scanner and SSG Fines collection management system of SSG Organization?**

The process involved in constructing the student school activities attendance system through biometric technology and supreme student government fines collection management system and design the system with its automated capability just like the Jose Rizal Memorial State University Employee's Attendance and Payroll System. The java programming language

generates the process of enrolling, checking, and updating the allocated price of student fines. Internet, books, and people who have the knowledge about biometric technology were used as reference. After gathering all information, the researcher started designing the system and loading all the gathered information and the process are as follows;

- Gathered information from the supreme student government department. The information that the researchers gathered in the supreme government are; the current system process of the supreme student government was using, student profiles, school activities, student fines rates, the checking of student attendances process and the billing process.
- Study the needed fields to form a system process. The fields that the researchers studied are; the functionality, reliability, efficiency, and maintainability.
- Put all the programs in designing the student school activities attendances system through biometric technology and supreme government fines collection management system.

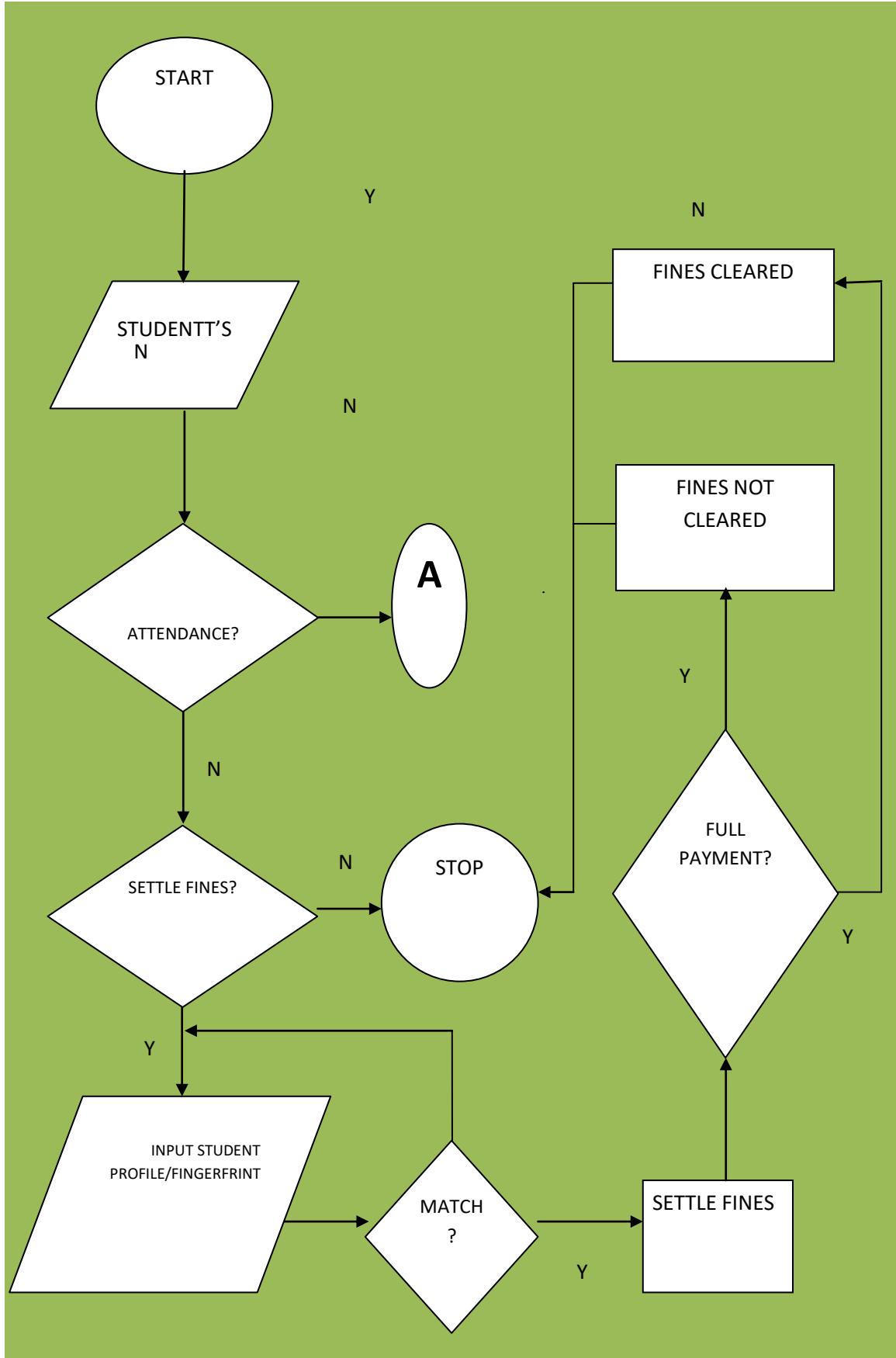
The data represents the process involved in constructing the student school activities attendance system through biometric technology and supreme student government fines collection system. This process shows the format of the output which clearly indicates the researchers first steps of gathering the entire information which was useful steps for the accomplishment of the system.

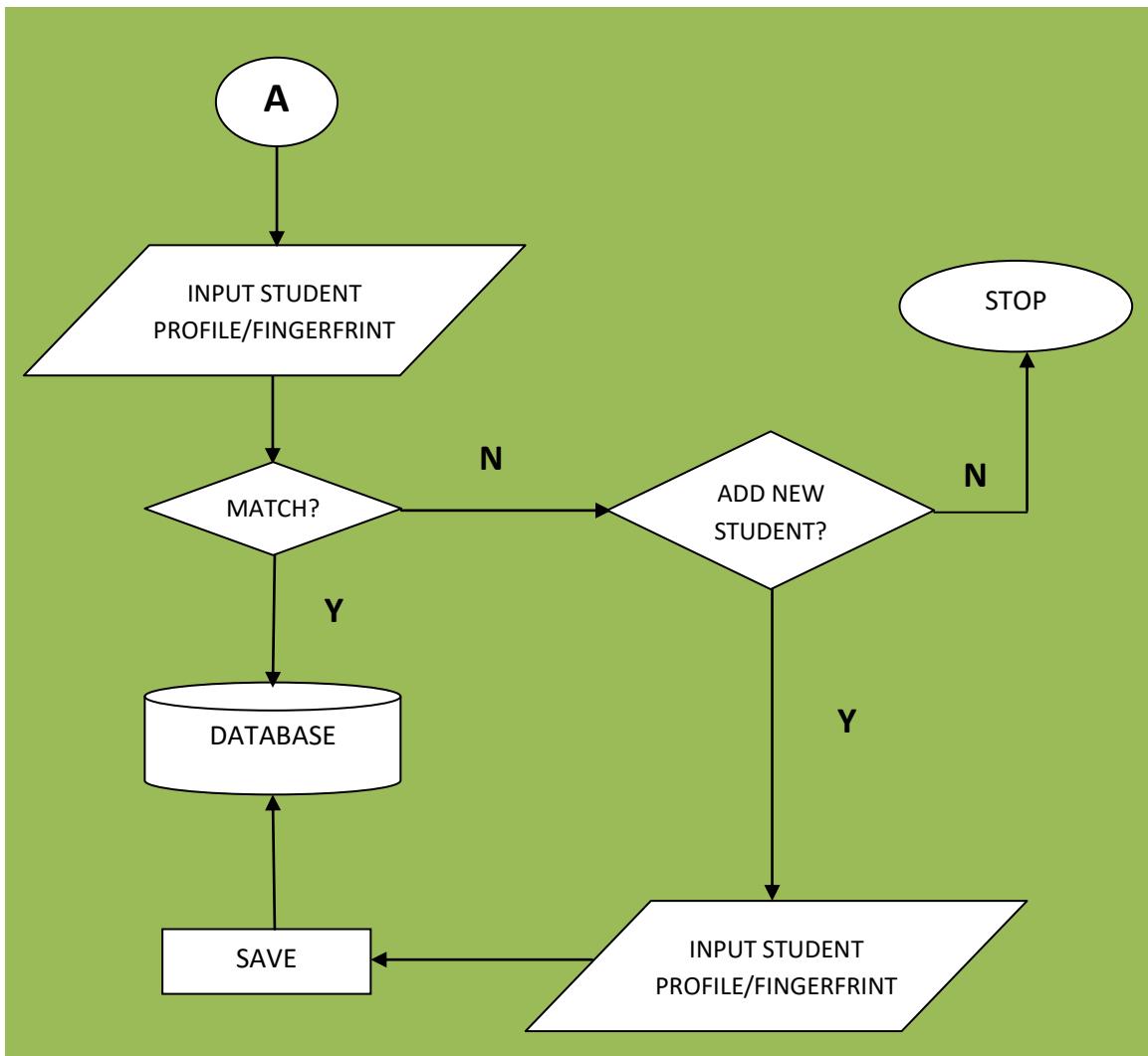
### **3. What are the processes and algorithms involved in the system?**

The Jose Rizal Memorial State University, particularly in Supreme Government Student is currently using the barcode scanner in checking the attendance of each student during the school activities. The system “Student

School Activities Attendance System Through Biometric Technology and Supreme Student Government Fines Collection Management System aims to develop and upgrade the current system of this institution.

Figure 23 shows the process of the proposed system of student activity attendance and fines collection management using fingerprint scanner. The first step is to put the thumb mark of the student in the fingerprint scanner. The fingerprint scanner will read the fingerprint if it is already exist or not yet. However, if the fingerprint doesn't exist, the student is rendered to undergo for student interface registration. The registration includes the personal information of the student, course, department, etc. and most especially the student's fingerprint. The next step is to put the thumb mark of the student again in the finger scanner. When it is successfully done, it will be saved automatically. In terms of settling of fines and for the signing of clearance, the guest or the assigned Attendance Checker will then search the student's record. If the student record is found the student fines status will display and the attendance checker will inform and show the exact amount and status of the student's fines. If the attendance checker finds out that the student is not yet paid, and if the student wants to clear or pay the total amount of fines, the attendance checker will ask for the payment and will update the student's record, mark it as "Student Fines Cleared" and sign the student's clearance automatically. Otherwise, if the student only wants to know the amount of fines or will pay the fines but not in full amount, then the attendance checker will search the records and show it to the student but with the status of "Student Not Cleared" and will not sign the clearance. The system also prints report of the fines collection after certain school acitivity.





**Figure 24. Student School Activities Attendance System Flowchart**

4. What other existing systems that can be fused into a hybrid system to the Student School Activities Attendance System through Biometric Technology and Supreme Student Government Fines Collection Management System?

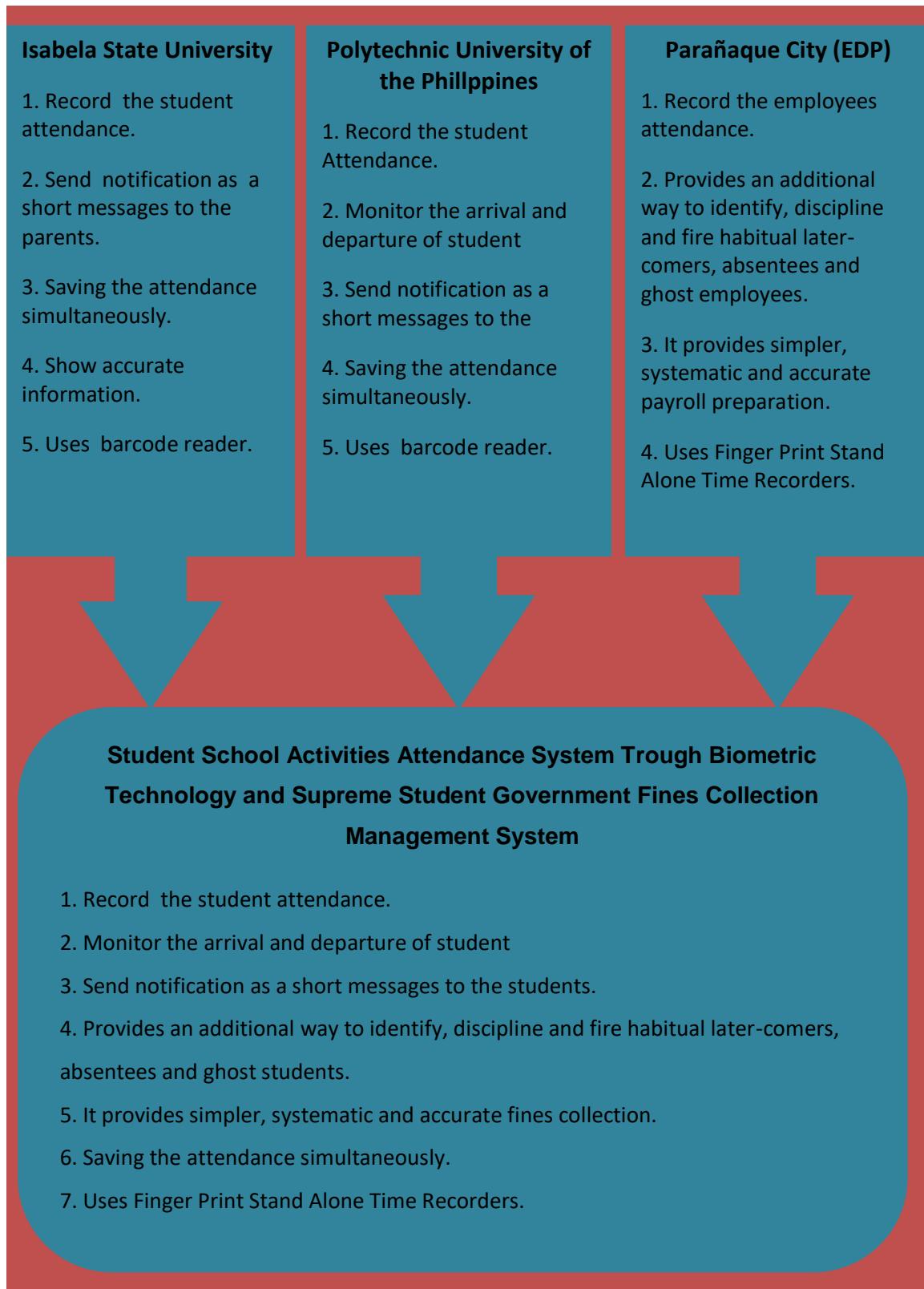
The first box is the Isabela State University Laboratory High School is one of the public high schools that embrace information and communication technology now. As they immersed themselves with technology through their

delivery of lessons and other forms brought about by information technology. The system records each student for the attendance. It also sends notifications to the parents whether the student is present or not. The system shows accurate information to the student. The as the other existing systems it uses barcode reader for attendance checking.

The second box is the Polytechnic University of the Philippines. The purpose of this system is to monitor the arrival and departure of Polytechnic University of the Philippines student. The same with the other existing systems it also uses RFID. The students will use their RFID card (Radio Frequency Identification) to enter in the school premises. The RFID reader will detect if the RFID card is registered on the database of the school. The function of SMS (Short Message Services) Advisor y is it will give the parents the information regarding the time of the arrival and departure of their children in the PUP campus even though they are at home. Just like the first existing system it also sends notification as a short message to the parents and uses barcode reader for the attendace of the students. The third box is Parañaque City (EDP),Parañaque City in the Philippines that has replaced its existing biometric machines with a new fingerprint biometric attendance registry system, which it says is more user-friendly and efficient. A total of 40 Model 628 Double Engine ZK Finger Print Stand Alone Time Recorders were purchased. City hall took 15 units while the rest were installed in other local government facilities. Theupgrade was jointly run by the city government's Human Resource Management Office and the

Electronic Data Processing (EDP) Office. It uses fingerprint standalone time recorders for the payroll preparation.

Figure 24 shows the fuse system of the study, Student School Activities Attendance System through Biometric Technology and Supreme Student Government Fines Collection Management System contains 7 features such as record the student attendance, monitor the arrival and departure of student, send notification as a short messages to the students, provides an additional way to identify, discipline and fire habitual later-comers, absentees and ghost students, it provides simpler, systematic and accurate fines collection, saving the attendance simultaneously, uses Finger Print Stand Alone Time Recorders. Thelsabela State University has 5 system features: record the student attendance, send notification as a short messages to the parents, saving the attendance simultaneously, show accurate information, and uses barcode reader. Polytechnic University of the Philippines has 5 features: record the student Attendance, monitor the arrival and departure of student, send notification as short messages to the parents, saving the attendance simultaneously, and Uses barcode reader. ParañaqueCity (EDP) has 4 features: record the employees attendance, provides an additional way to identify, discipline and fire habitual later-comers, absentees and ghost employees, it provides simpler, systematic and accurate payroll preparation, and uses Finger Print Stand Alone Time Recorders. The system was fused into one system. By fusing 3 system it will create much functionable and create very efficient results and particularly very useful to the users.



**Figure 25. Fusion of Similar System**

## Checklist of the System Features

**Table 3. Checklist of the System Feature**

Features	Isabela State University	Polytechnic University of the Phillipines	Polytechnic University of the Phillipines	Student School Activities Attendance System Through Biometric Technology and SSG Fines Collection Management System
1. Record the student attendance.	✓	✓	✓	✓
2. Monitor the arrival and departure of student	X	✓	X	✓
3. Send notification as a short messages to the students.	✓	✓	X	✓
4. Provides an additional way to identify, discipline and fire habitual late-comers, absentees and ghost students.	X	X	✓	✓
4. Provides an additional way to identify, discipline and fire habitual late-comers, absentees and ghost students.	X	X	X	✓
5. It provides simpler, systematic and accurate fines collection.	X	X	✓	✓
6. Saving the attendance simultaneously.	✓	✓	X	✓
7. Uses Finger Print Stand Alone Time Recorders.	X	X	✓	✓

Table 3 above was the checklist of the system features that shows the system features and the proposal system study. The Isabela State University features are the following: record the student attendance, send notification as a short messages to the parents, saving the attendance simultaneously, show accurate information, and uses barcode reader. Polytechnic University of the Philippines show some features: record the student Attendance, monitor the arrival and departure of student, send notification as short messages to the parents, saving the attendance simultaneously, and Uses barcode reader. Parañaque City (EDP) has a features: record the employees attendance, provides an additional way to identify, discipline and fire habitual late-comers, absentees and ghost employees, it provides simpler, systematic and accurate payroll preparation, and uses Finger Print Stand Alone Time Recorders.

**5. How does Student School Activities Attendance System through Biometric Technology and Supreme Student Government Fines Collection Management System work as to**

- 4.1 Functionality;
- 4.2 Reliability;
- 4.3 Usability;
- 4.4 Efficiency;
- 4.5 Maintainability; and
- 4.6 Portability?

<b>Ranges Of Mean</b>	<b>Descriptive Rating</b>
4.21- 5.00	Very Much Functional
3.41- 4.20	Much Functional
2.61- 3.40	Functional
1.81- 2.60	Fairly Functional
1.00- 1.80	Not Functional

**Table 4. Proposed evaluation of the developed system in terms of functionality.**

Functionality	Mean	Descriptive Rating
1.Compliance of its user needs	4.85	Very Much Functional
2. Compatibility to the other system	4.67	Very Much Functional
3.Fitness of its intended use	4.67	Very Much Functional
4.Protect all records inside the system	4.73	Very Much Functional
5.Provide a useful, time-saving and acceptably accurate	4.63	Very Much Functional
6.Solution to a specified task or program	4.63	Very Much Functional
7.Minimization of its run-time error	4.53	Very Much Functional
8. Speed in Data Processing	4.7	Very Much Functional
9. Detection of error	4.85	Very Much Functional
10. Intended use of the software	4.57	Very Much Functional

### Functionality

A set of attributes that bears on the existence of a set of functions and their specified properties. It means the quality of having a practical use or being functional. The functions are those that satisfy state of users.

Table 4 shows how functional the system is which was rated by the respondents. The descriptive rating of functionality composed of ten criteria which are rated as much as functional namely: *the Compliance of end user needs* got the mean of 4.85 or very much functional. This means that the users were not confused by the system features and functions. The users clearly understand what the system is.; *Compatibility to the other system* got the mean of 4.67 or very much functional; *Fitness of its intended use* with the mean of 4.67 or very much functional; *Protect all the records inside the system* got the mean of 4.73 or very much functional. This means that all files and records inside the system is highly protected by the admin.; *The system provides a useful, time saving and acceptably accurate solution to a specified task or problem* got the mean of 4.63 or very much functional. This means that the system is created to save time in performing task.; *Minimization of its run-time error* with the mean of 4.53 or very much functional which states the system has less errors when the system is running; *Speed in Data Processing* with got the mean of 4.7 or very much functional in terms of processing the data in the system; *Detection of error* with the mean of 4.8 or very much functional in which the user can easily detect the errors when there is.; and *Intended use of the software* with the mean 4.57 or very much functional. Generally the evaluation software quality factor as to its functionality is 46.8 with the total mean of 4.68. This means that the system is very much functional.

<b>Ranges Of Mean</b>	<b>Descriptive Rating</b>
4.21- 5.00	Very Much Reliable
3.41- 4.20	Much Reliable

2.61- 3.40	Reliable
1.81- 2.60	Fairly Reliable
1.00- 1.80	Not Reliable

**Table 5. Respondent's rating of the system in terms of reliability.**

Reliability	Mean	Descriptive Rating
1.Exactness of Information divided within the program	4.7	Very Much Reliable
2.Back-up files that created by the system	4.5	Very Much Reliable
3.Process performed by the system	4.43	Very Much Reliable
4. Stability of the system	4.53	Very Much Reliable
5. Error tolerance	4.57	Very Much Reliable
6. Ease in data recovery	4.57	Very Much Reliable
7. Accuracy of data capture	4.63	Very Much Reliable
8. Accuracy of Results	4.57	Very Much Reliable
9.Understandability of output	4.63	Very Much Reliable
10. Completeness of the system	4.73	Very Much Reliable

## Reliability

Reliability is the ability of a system to perform its required function under stated condition whenever required having a long mean time between failures. It is an attribute that consistently performs according to its specifications.

Table 5 shows the descriptive rating of reliability that composed of ten criteria which are rated as much as reliable namely: the *Exactness of Information*

*divided within the program* got the mean of 4.7 or very much reliable which means that the system is correct and exact in information; *Back-up files that created by the system* with the mean of 4.5 or very much reliable.; *Process performed by the system* with the mean of 4.43 or very much reliable means that all the processes performed by the system are built correctly; *Stability of the system* with the mean of 4.53 or very much reliable in which the system is in good condition and can be used; *Error tolerance* with the mean of 4.57 or very much reliable; *Ease in data recovery* with the mean of 4.57 or very much reliable means that all the data in the system are easy to recover; *Accuracy of data capture* with the mean of 4.57 or very much reliable means that the data gathered are accurate; *Accuracy of Results* with the mean of 4.57 or very much reliable; *Understandability of output* with the mean of 4.63 or very much reliable means that the output of the system is very clear and easy to understand by the user; and *Completeness of the system* with the mean of 4.73 or very much reliable means that the system is complete involving the requirements to complete the system. Generally the evaluation software quality factor as to its reliability is 45.9 with the total mean of 4.59. This means the system is very much reliable.

<b>Ranges Of Mean</b>	<b>Descriptive Rating</b>
4.21- 5.00	Very Much Portable
3.41- 4.20	Much Portable
2.61- 3.40	Portable
1.81- 2.60	Fairly Portable
1.00- 1.80	Not Portable

**Table 6. Evaluation of the software quality in terms of portability**

<b>Portability</b>	<b>Mean</b>	<b>Descriptive Rate</b>
1.The system can be easily installed	4.63	Very Much Portable
2.The system does not require more hardware requirements	4.34	Very Much Portable
3.The system can easily adapt to other operating systems.	4.7	Very Much Portable
4.The backup of the system can easily be installed	4.45	Very Much Portable
5.System supports on maximum hardware requirements	4.53	Very Much Portable
6.User capability/capacity	4.53	Very Much Portable
7.Its intended application	4.53	Very Much Portable
8.Its intended design	4.43	Very Much Portable
9.Adaptability to new version of system requirements	4.6	Very Much Portable
10.Adaptability to other environment	4.7	Very Much Portable

### **Portability**

A set of attributes that bears on the ability of software to be transferred from one environment to another.

Table 6 shows the descriptive rating of portability is composed of ten criteria which are rated as much as portable namely: *The system can be easily*

*installed* with the mean of 4.63 or very much portable which means the system is very easy to install and no hassle. *The system does not require more hardware requirements* with the mean of 4.34 or very much portable. The system only requires one windows 7 computer and a fingerprint scanner. *The system can easily adapt to other operating systems* with the mean of 4.7 or very much portable. Though the system is using a window 7, but it can also adapt to other operating system easily.; *The backup of the system can easily be installed* with the mean of 4.45 or very much portable. Just like the system the backup sytem can be also installed easily.; *System supports on maximum hardware requirements* with mean of 4.53 or very much portable; *User capability/capacity* with the mean of 4.53 in which the user is capable when using the system; *Its intended application* with the mean of 4.53; *Its intended design* with the mean of 4.43; *Adaptability to new version of system requirements* with the mean of 4.6 means the system can be easily adapt to any version of the system; and *Adaptability to other environment* with the mean of 4.7 means the system is compatible with other environment. Generally the evaluation software quality factor as to its portability is 45.5 with the total mean of 4.5. This means that the system is very much portable.

<b>Ranges Of Mean</b>	<b>Descriptive Rating</b>
4.21- 5.00	Very Much Usable
3.41- 4.20	Much Usable
2.61- 3.40	Usable
1.81- 2.60	Fairly Usable
1.00- 1.80	Not Usable

**Table 7. Evaluation of software quality factor in terms of usability.**

<b>Usability</b>	<b>Mean</b>	<b>Description</b>
1.User friendly	4.67	Very Much Usable
2.The user is satisfied with the system	4.47	Very Much Usable
3.Simple driven program	4.63	Very Much Usable
4.Easy to accomplish the basic task through graphical design	4.6	Very Much Usable
5.Provide a detailed system design to the user	4.4	Very Much Usable
6.Wrong key input errors detection	4.6	Very Much Usable
7.Data storage	4.73	Very Much Usable
8.Simple manipulation features	4.57	Very Much Usable
9.Tolerable difficulty level	4.5	Very Much Usable
10.Production of data output	4.53	Very Much Usable

## **Usability**

A set of attributes that bears on the effort needed for use, and on the individual assessment of such use, by a stated or implied set of users.

Table 7 shows the descriptive rating of usability is composed of ten criteria which are rated as much as usable namely: *User friendly* with the mean of 4.67 in which the system is easy to use; *The user is satisfied with the system* with the mean of 4.47 means the system satisfies the use; *Simple driven program* with the mean of 4.63; *Easy to accomplish the basic task through graphical design* with the mean of 4.6; *Provide a detailed system design to the user* with the mean of 4.4; *Wrong key input errors detection* with the mean of 4.6; *Data storage* with

the mean of 4.73; *Simple manipulation features* with the mean of 4.57; *Tolerable difficulty level* with the mean of 4.5; and *Production of data output* with the mean of 4.53. Generally the evaluation software quality factor as to its usability is 45.7 with the total mean of 4.57. This means that the system is very much usable.

<b>Ranges Of Mean</b>	<b>Descriptive Rating</b>
4.21- 5.00	Very Much Efficient
3.41- 4.20	Much Efficient
2.61- 3.40	Efficient
1.81- 2.60	Fairly Efficient
1.00- 1.80	Not Efficient

**Table 8. Evaluation of the software quality in terms of efficiency.**

<b>Efficiency</b>	<b>Mean</b>	<b>Descriptive Rate</b>
1.The system needs minimum requirements	4.77	Very Much Efficient
2. The system can accommodate many transactions at the same time.	4.5	Very Much Efficient
3. The system can retrieve data faster	4.57	Very Much Efficient
4. Compatibility with other device	4.63	Very Much Efficient
5.Support a number of users	4.53	Very Much Efficient
6.Speed of data capture and retrieval	4.57	Very Much Efficient
7.Speed of navigation of production of outputs	4.63	Very Much Efficient
8.Support on minimum facilities	4.63	Very Much Efficient
9.Hardware utilization	4.5	Very Much Efficient
10.Compatibility with interfaced devices	4.4	Very Much Efficient

## **Efficiency**

A set of attributes that bears on the relationship between the level of performance of the software and the amount of resources used, under stated conditions.

Table 8 shows the descriptive rating of efficiency is composed of ten criteria which are rated as much as efficient namely: *The system needs minimum requirements* with the mean of 4.77 means the system does not need a lot of requirements; *The system can accommodate many transactions at the same time* with the mean of 4.5 means the system can transact many transactions at the same time without errors; *The system can retrieve data faster* with the mean of 4.57; *Compatibility with other device* with the mean of 4.63; *Support a number of users* with the mean of 4.53 means the system can be used by many numbers of users; *Speed of data capture and retrieval* with the mean of 4.57 means the retrieval of the data is fast; *Support on minimum facilities* with the mean of 4.63; *Hardware utilization* with the mean of 4.5; and *Compatibility with interfaced devices* with the mean of 4.4. Generally the evaluation software quality factor as to its reliability is 45.7 with the total mean of 4.57. This means the system is very much efficient.

<b>Ranges Of Mean</b>	<b>Descriptive Rating</b>
4.21- 5.00	Very Much Maintainable
3.41- 4.20	Much Maintainable
2.61- 3.40	Maintainable
1.81- 2.60	Fairly Maintainable
1.00- 1.80	Not Maintainable

**Table 9. Evaluation of the software quality in terms of maintainability.**

Maintainability	Mean	Descriptive Rate
1. The system can diagnose system failure.	4.73	Very Much Maintainable
2. The system can be configured easily.	4.47	Very Much Maintainable
3. The system can function even though there are changes made by the developer.	4.57	Very Much Maintainable
4. Flexibility of system modification	4.47	Very Much Maintainable
5. Correction of program defects	4.43	Very Much Maintainable
6. Accessibility for maintenance	4.6	Very Much Maintainable
7.Compliance of concurrent system requirements	4.6	Very Much Maintainable
8. Improving performance	4.53	Very Much Maintainable
9.Increase program capabilities	4.6	Very Much Maintainable
10.Advanve features for recent technology	4.6	Very Much Maintainable

### Maintainability

A set of attributes that bear on the effort needed to make specified modifications.

Table 9 shows the descriptive rating of maintainability is composed of ten criteria which are rated as much as maintainable namely: *The system can diagnose system failure* with the mean of 4.73; *The system can be configured*

easily with the mean of 4.47; *The system can function even though there are changes made by the developer* with the mean of 4.57; *Flexibility of system modification* with the mean of 4.47; *Correction of program defects* with the mean of 4.43; *Accessibility for maintenance* with the mean of 4.6; *Compliance of concurrent system requirements* with the mean of 4.6; *Improving performance* with the mean of 4.53; *Increase program capabilities and Compliance of concurrent system* got the mean of 4.6. Generally the evaluation software quality factor as to its maintainability is 45.6 with the total mean of 4.56. This means that the system is very much maintainable.

### **Summary of the Ratings of Software Quality Factors**

**Table 10. Summary of the Ratings of Software Quality Factor**

Software Quality Factor	Mean Average	Descriptive Rating
Functionality	4.68	Very Much Functional
Reliability	4.59	Very Much Reliable
Usability	4.57	Very Much Usable
Efficiency	4.57	Very Much Efficient
Maintainability	4.56	Very Much Maintainable
Portability	4.55	Very Much Portable
<b>OVERALL</b>	<b>4.58</b>	<b>Very Much Acceptable</b>

Table 10 shows the result of the technical evaluation that proved the Functionality, Reliability, Usability, Efficiency, Maintainability, and Portability of the developed system software is true and correct. The above mentioned criteria of the software quality factor are included in the evaluation of the instrument

together with its corresponding ratings and equivalent description are exemplified and discussed in this section.

Overall the functionality criterion has the average of 4.68, reliability criterion has the average of 4.59, usability criterion has the average of 4.57, efficiency criterion has the average of 4.57, maintainability criterion has the average of 4.56 and the portability criterion has the average of 4.55 that gives the overall mean average of the software evaluation of 4.58 or very much acceptable. This means that the users fully understood the purpose and its task.

## **Chapter 5**

### **SUMMARY, FINDINGS, CONCLUSIONS AND RECOMMENDATIONS**

This chapter presents the summary of the result after the system software evaluation. Conclusions are deduced based on the findings, and corresponding recommendations are offered.

#### **Summary**

This study aimed to develop system Student School Activities Attendance System Through Biometric Technology and Supreme Student Government Fines Collection Management System. This was developed through a process called the life cycle which includes Data Gathering, Requirements Analysis, Designing, Coding and Testing and Evaluation. There were 30 respondents utilized in the evaluation of the effectiveness of the system. These included the IT Professionals, IT Students and the SSG Officers of the school in order to test the effectiveness of the system.

Through the thorough investigation and analysis of the research study and based on the observation of the researchers in the process of tracking which takes longer time motivated the researchers to develop the system. This software is the innovation of the Attendance system using fingerprint scanner.

Specifically, this study wanted to answer the following questions:

1. What is the current system in Jose Rizal Memorial State University in terms of Student School Activities Attendance System Through Biometric Technology and Supreme Student Government Fines Collection Management System?
2. What are the components involved in developing an attendance system using fingerprint scanner and SSG fines collections Management system.

3. What are the process and algorithm involved in developing the system?
4. What other existing systems that can be fused into a hybrid to the Student School Activities Attendance System through Biometric Technology and Supreme Student Government Fines Collection Management System?
5. How does Student School Activities Attendance System through Biometric Technology and Supreme Student Government Fines Collection Management System work as to
  - 5.1 Functionality;
  - 5.2 Reliability;
  - 5.3 Usability;
  - 5.4 Efficiency;
  - 5.5 Maintainability; and
  - 5.6 Portability?

## **Findings**

After all the necessary data of study were treated accordingly, the following reveled:

1. The researcher found out that there is an existing system in getting the attendance that the school used and it uses barcode reader. The student must first scan the IDs. If the ID of the student exists then it will automatically save to the database and if not then the user or the SSG officer will then add and register a new student and then save. For student who will settle for the fines, the student must scan the IDs for checking if the student exists, if does then proceed for settling and for the payment. If the student wants to pay all the fines then the fines will be cleared.

2. The researcher found out that the components needed in by the proposed system are Fingerprint Scanner, Personal Computer/Laptop, Database(SQL LITE), Windows 7 or Higher, Visual basic 6, The student should register first including their fingerprint after the student has successfully register her record will be saved in the database. In getting the attendance, the fingerprint scanner is highly required because it is the main device that gets the attendance of the student. Without the software and hardware requirements the developed system won't work.
3. The researcher found out that proposed system uses the finger print scanner in getting the attendance of the student. First the administrator should register the student including their finger print. In getting the attendance of the student, the students should put their finger in the scanner if students are successfully login their attendance will be saved in the database. If the students want to pay their fines he or she must input their ID number only to avoid redundancy of the system.
4. The researcher found out that there are some existing system that gets the attendance system although some the features of each system varies, The Isabela State University has 5 system features: record the student attendance, send notification as a short messages to the parents, saving the attendance simultaneously, show accurate information, and uses barcode reader, Also PUP has 5 features: record Polytechnic University of the the student Attendance, monitor the arrival and departure of student, send notification as short messages to the parents, saving the attendance simultaneously, and Uses barcode reader, While Parañaque City (EDP) has 4 features: record the employees attendance,

provides an additional way to identify, discipline and fire habitual later-comers, absentees and ghost employees, it provides simpler, systematic and accurate payroll preparation, and uses Finger Print Stand Alone Time Recorders. By fusing 3 system it will create much functional and create very efficient results and particularly very useful to the users.

5. The researcher found out that developed system is very much functional, very much reliable, very much efficient, very much portable, very much usable, and very much maintainable. It was proven because the researcher conducted a survey.

## **Conclusions**

1. The researchers concluded that the current system works properly nevertheless it is needed to improved or add some features like fines collection management system.
2. The researcher concluded that software and the hardware requirements are very important so that the proposed system can work properly especially the fingerprint scanner because this is the only device on the hardware requirements that can get the attendance of the student.
3. The researchers concluded that the finger print scanner should be used instead the bar code reader so that it avoids bias attendance. Also the proposed system meets the requirement of the end users.
4. The researchers concluded that other existing system lacks of features but when combined it produces highly acceptable system which is the Student School Activities Attendance System Through Biometric Technology and Supreme Student Government Fines Collection Management System.

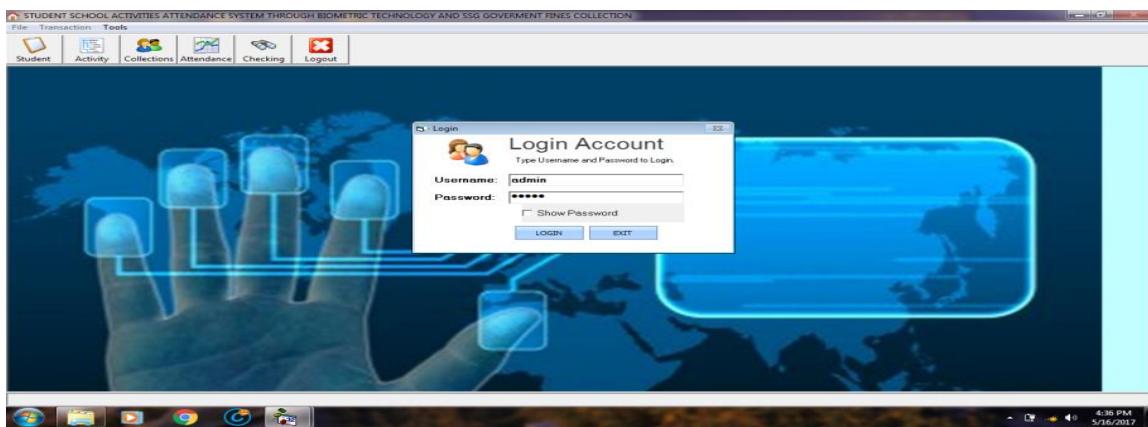
5. The researcher concluded that the system is very much functional, very much reliable, very much efficient, very much portable, very much usable, and very much maintainable. It was proven because the researcher conducted a survey.

### **Recommendations**

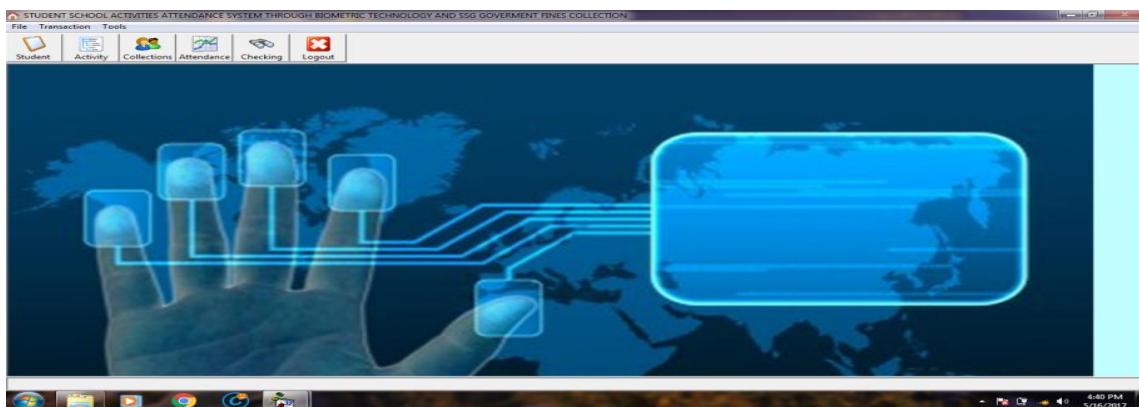
Based on the findings and conclusions, the researchers recommend to the Supreme Student Government in Jose Rizal Memorial State University to implement and used the developed Student School Activities Attendance System Trough Biometric Technology and SSG Fines Collection Management System, but we would highly recommend to implement this system in the entire Jose Rizal Memorial State University Campuses. In the other hand we would also recommend to implement the developed system to all secondary schools as the researcher knows that the secondary school also has a Supreme Student Government Organization.

## A. USERS MANUAL

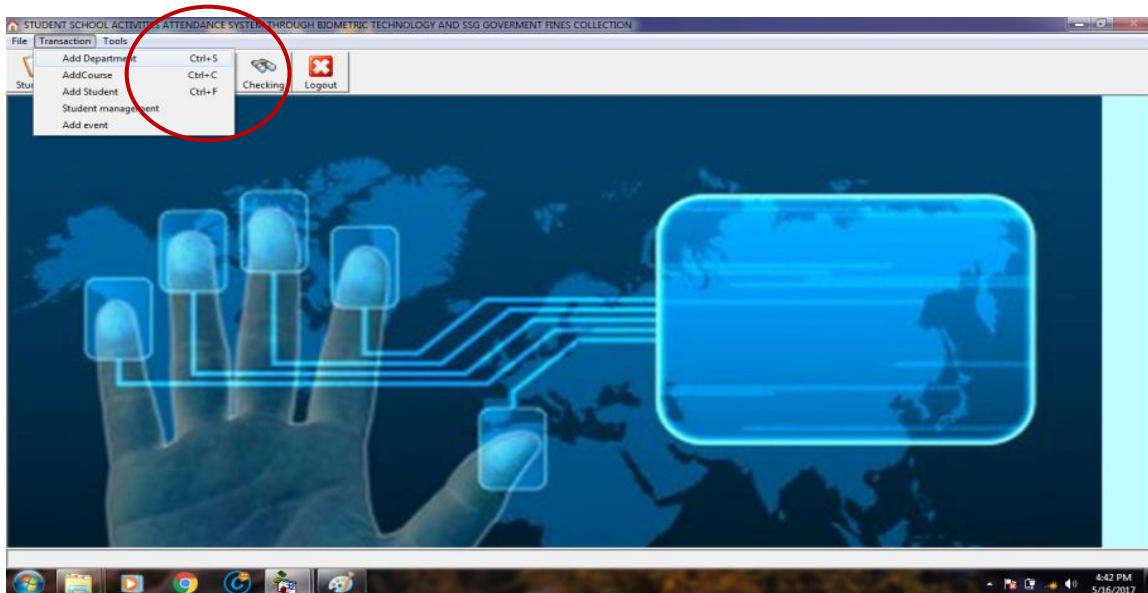
Log in using the username and password. Wait until it opens the homepage of the system.



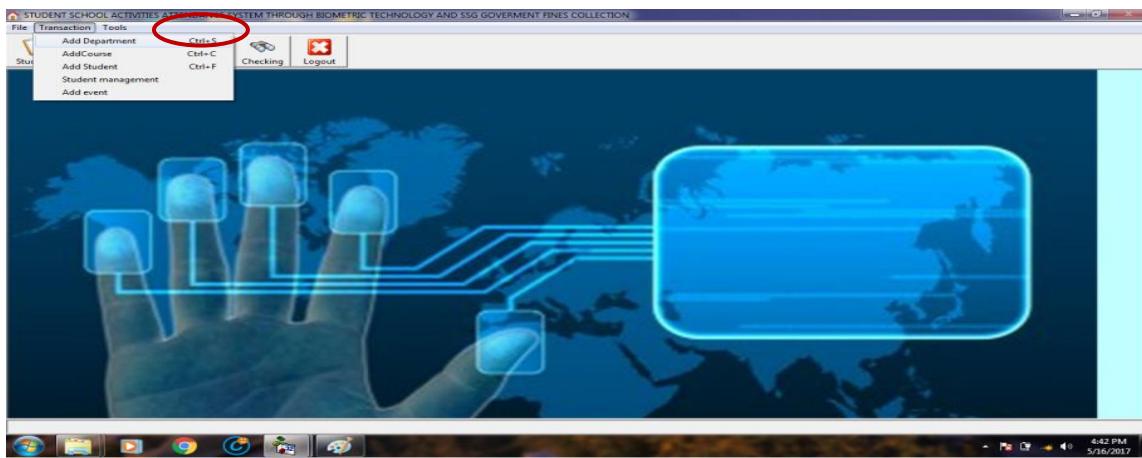
After the user log in it proceeds to the homepage of the system.



Click the transaction to add Department, Course, Student, and Event.



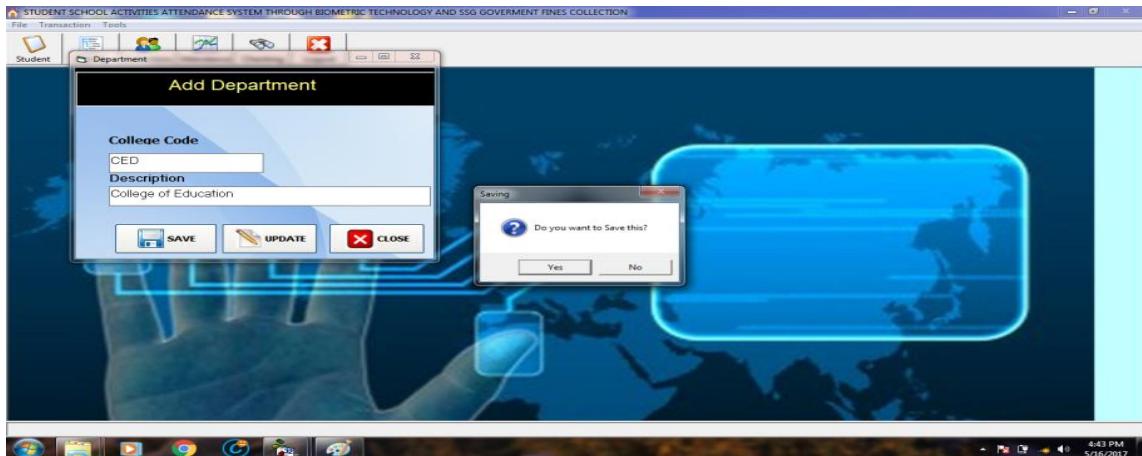
Click the Add Department to add new department to the system.



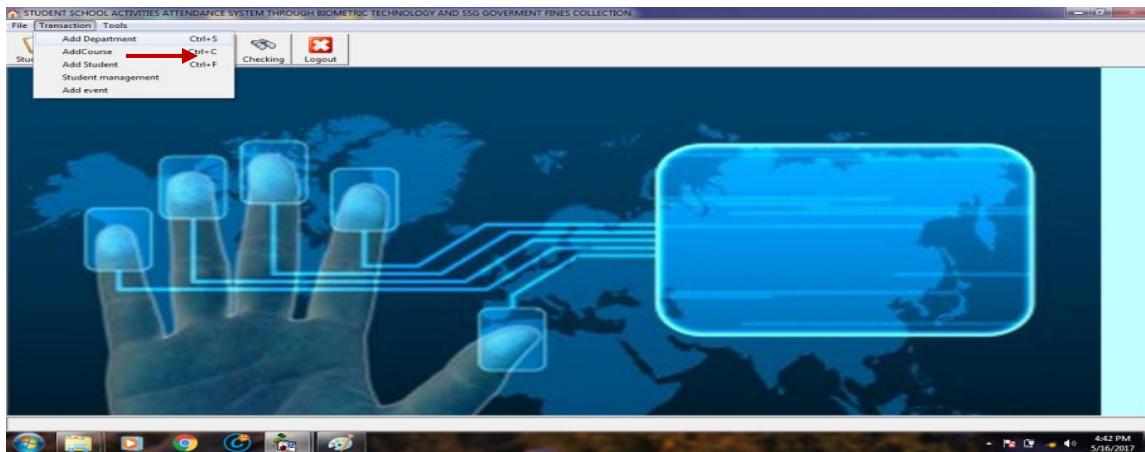
Then enter the Department Code and the Description then click Save button to save new department.



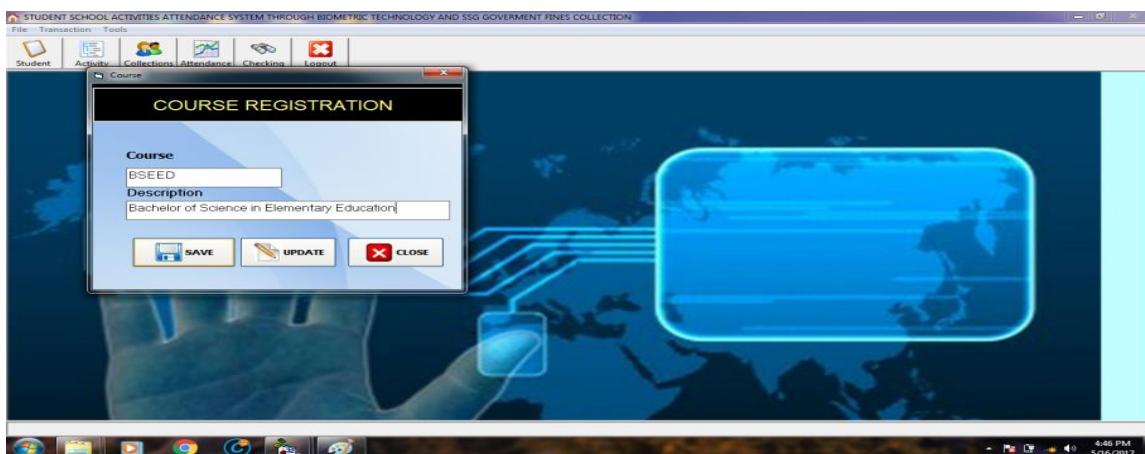
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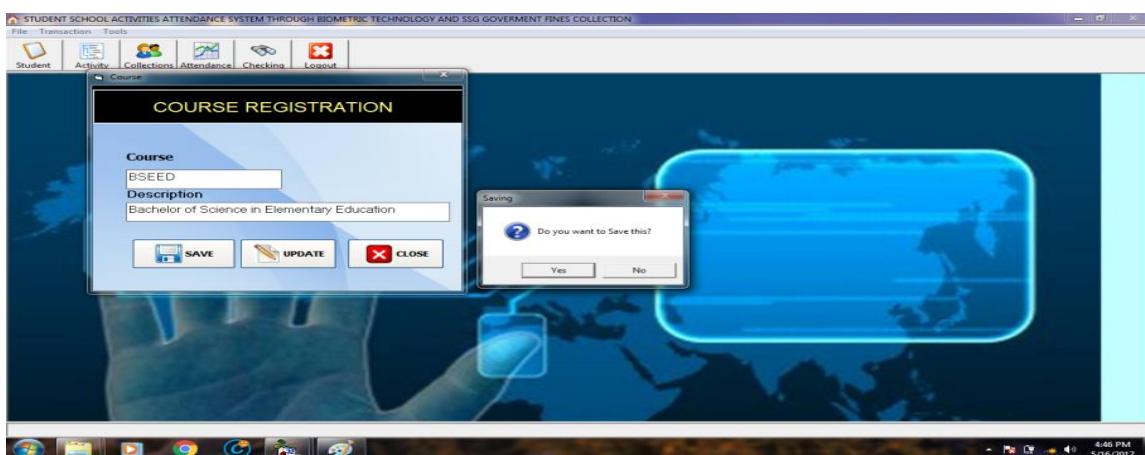
Next to is the Add Course to add new course in the system. Click the Add Course button.



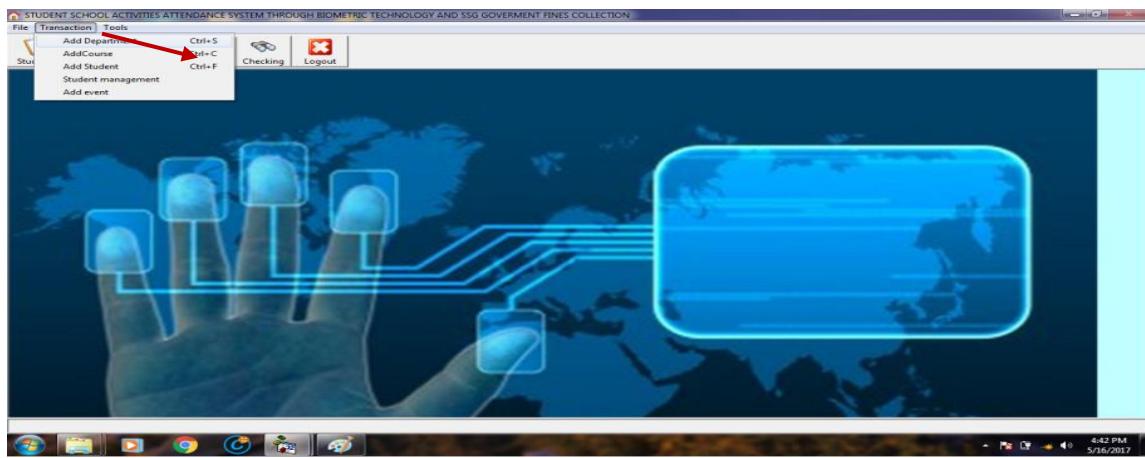
Enter the Course Code and Course Description. Click the Save button to save new course.



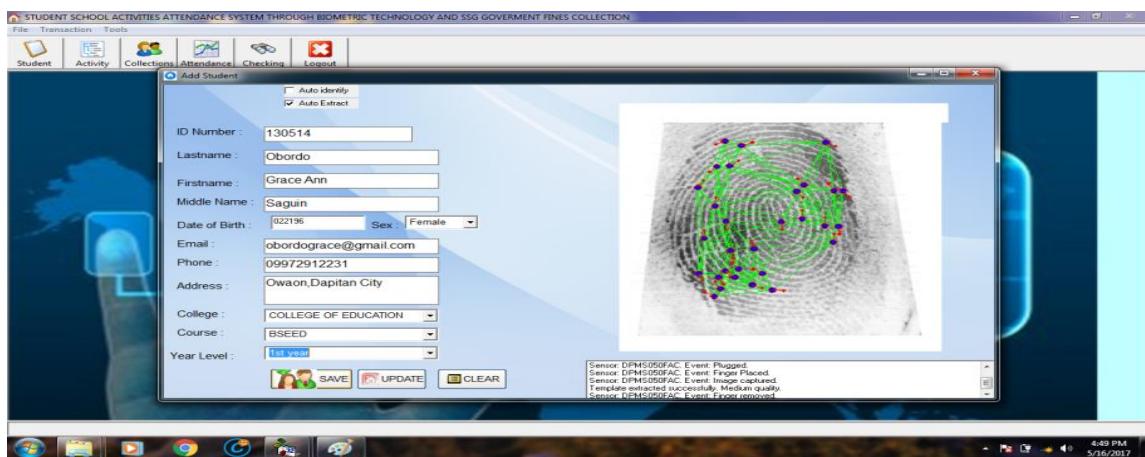
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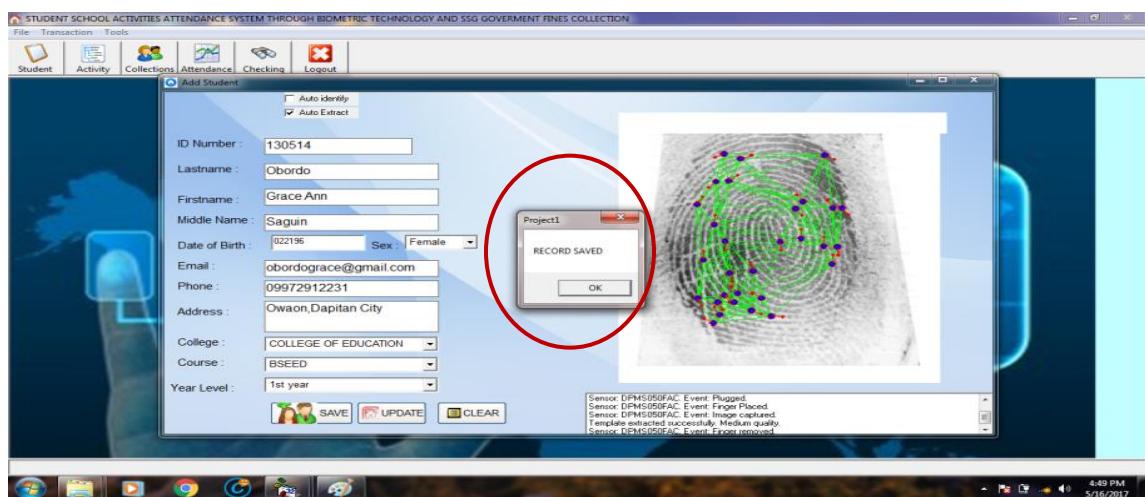
Next to is the Add Student to register a new student. Click the Add Student button.



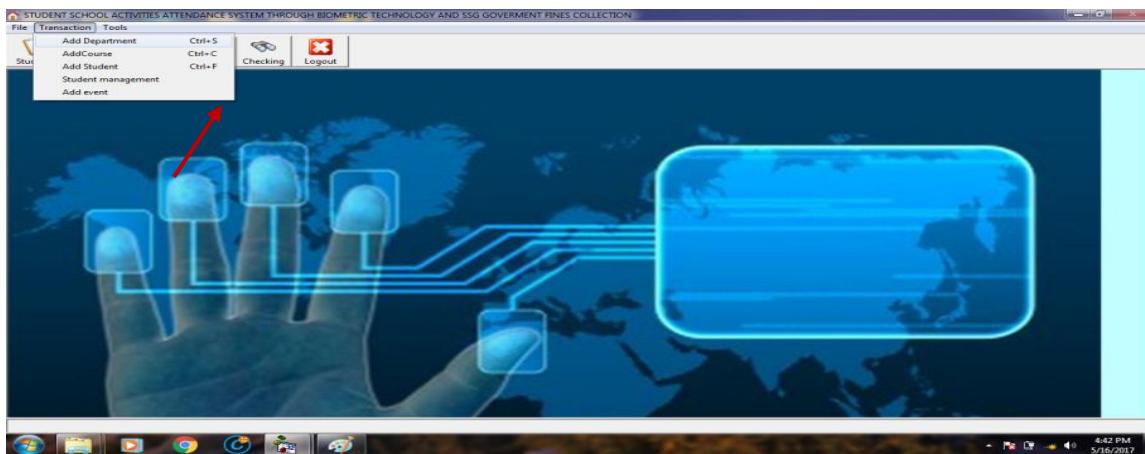
Input the needed personal information and put your finger on the fingerprint scanner to register your finger print. Click Save button when finished.



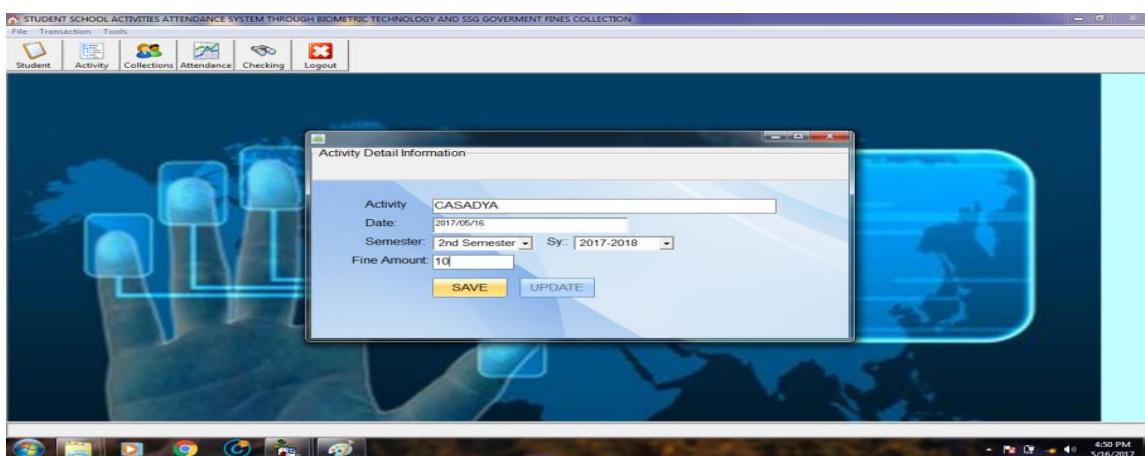
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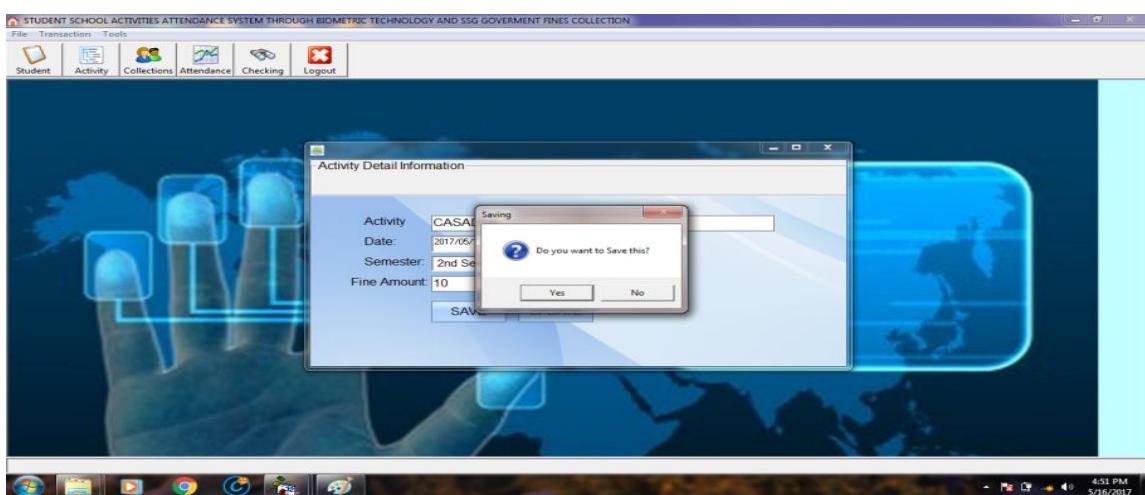
To add a new event, click the Add Event button.



Input the name of the activity, Date, Semester, School Year and the amount of the fines to implement. Click the Save button to save the entry.



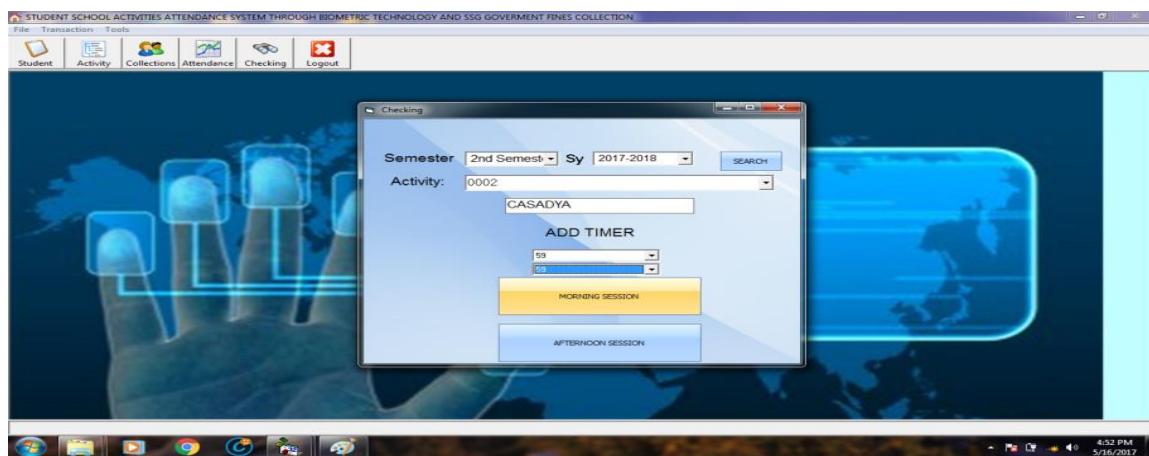
Click Save button to complete saving.



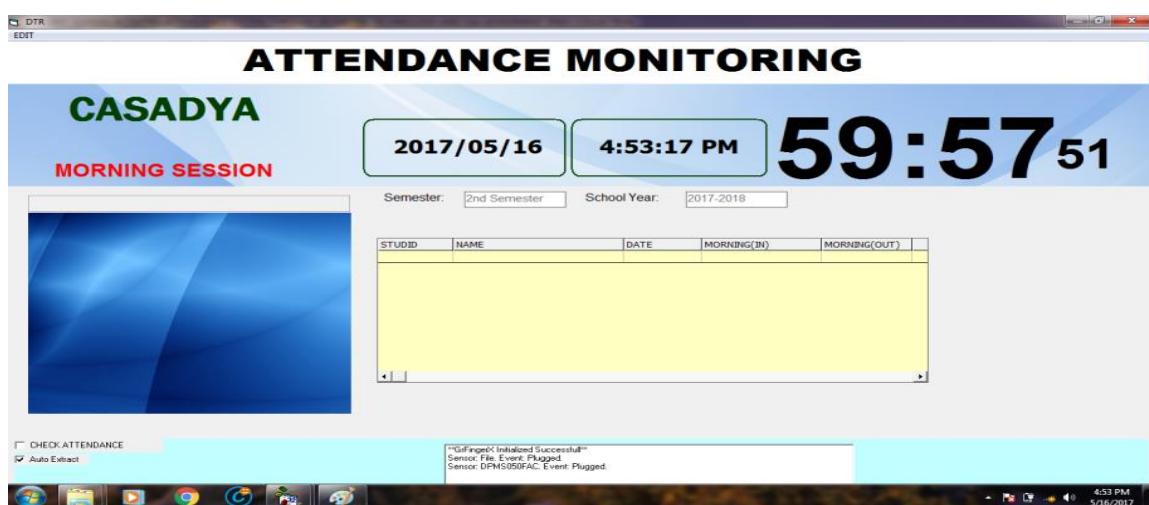
To start the attendance, click the Attendance button.



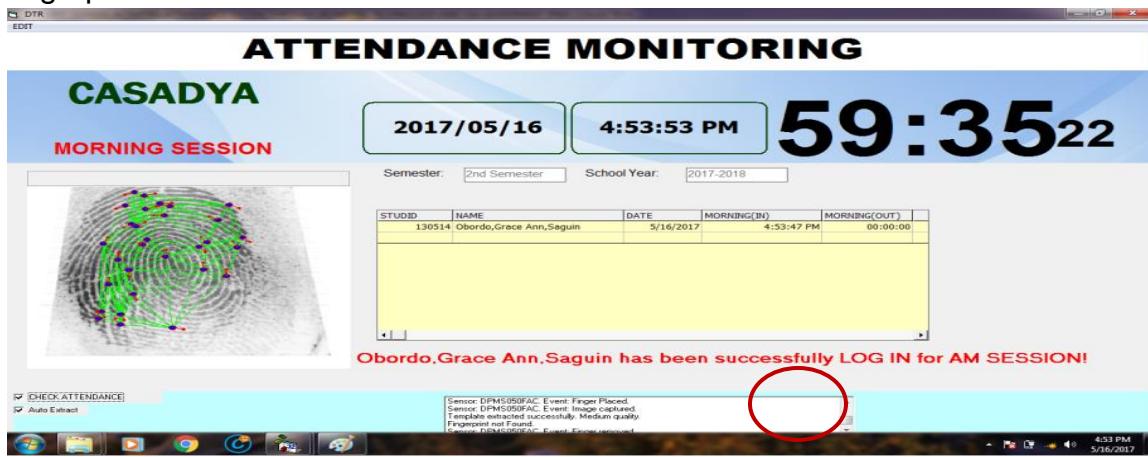
Input the needed data. Select semester, school year and activity. Set the timer for the attendance. Select whether it is for morning session or afternoon session.



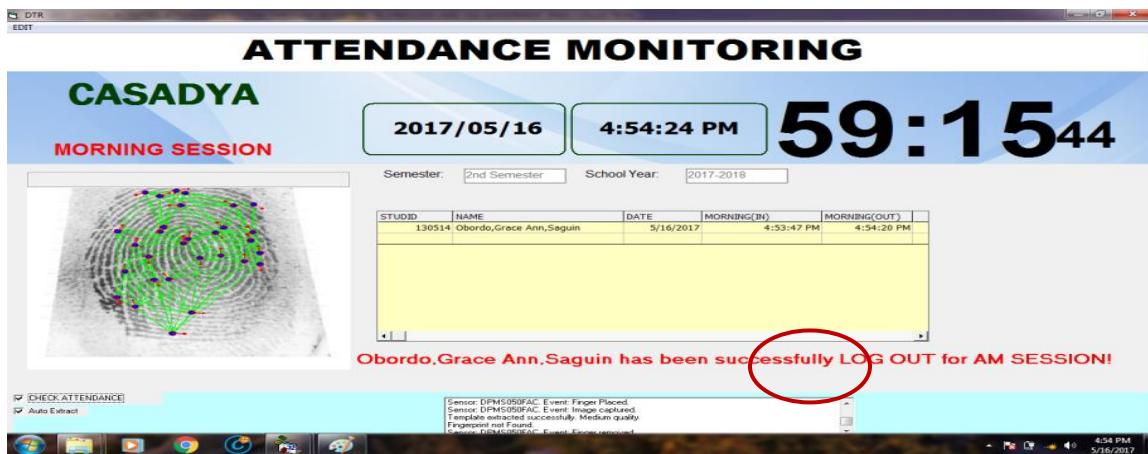
The attendance is now starting.



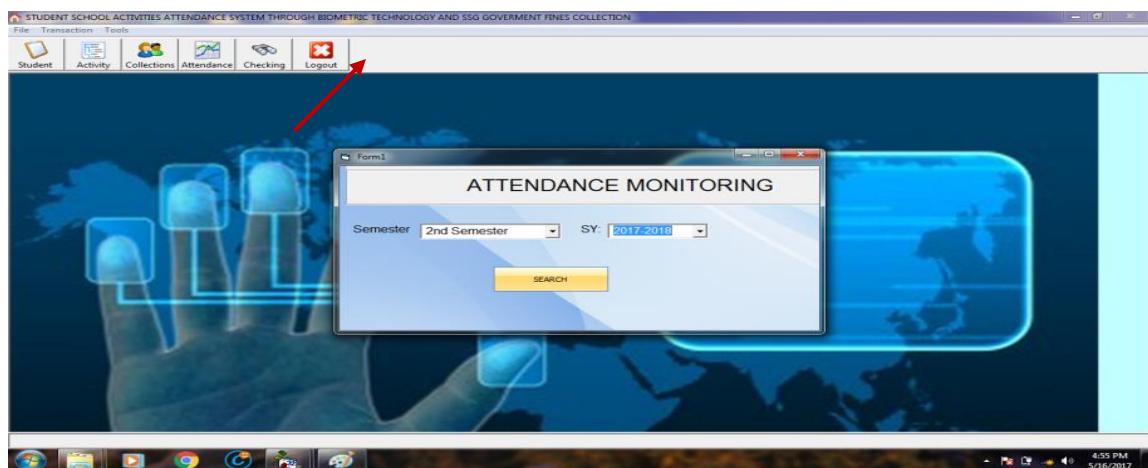
This shows the student has been successfully log in for the morning session using the fingerprint scanner.



This shows the student has been successfully log out for the morning session using the fingerprint scanner.



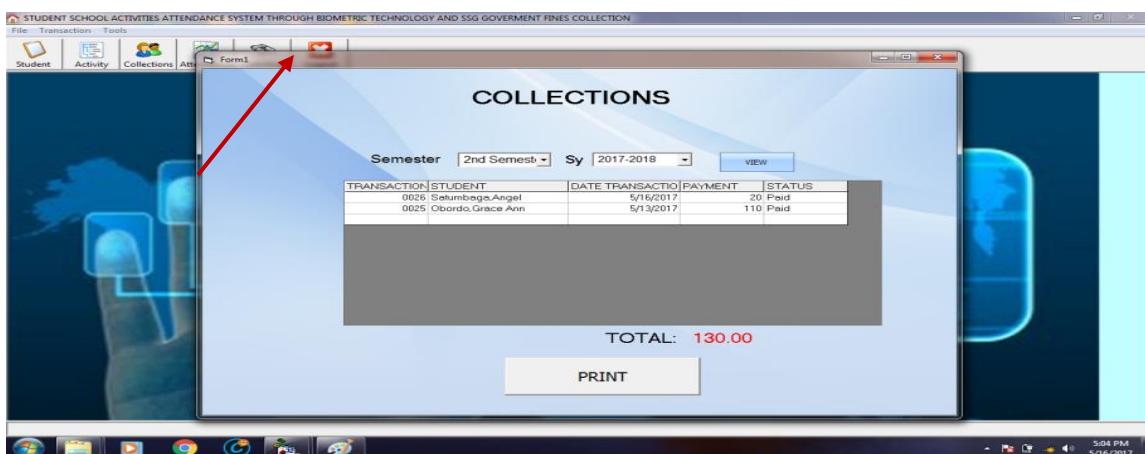
For checking the attendance and the fines, click the Checking button. Select Semester and School year and click Search button.



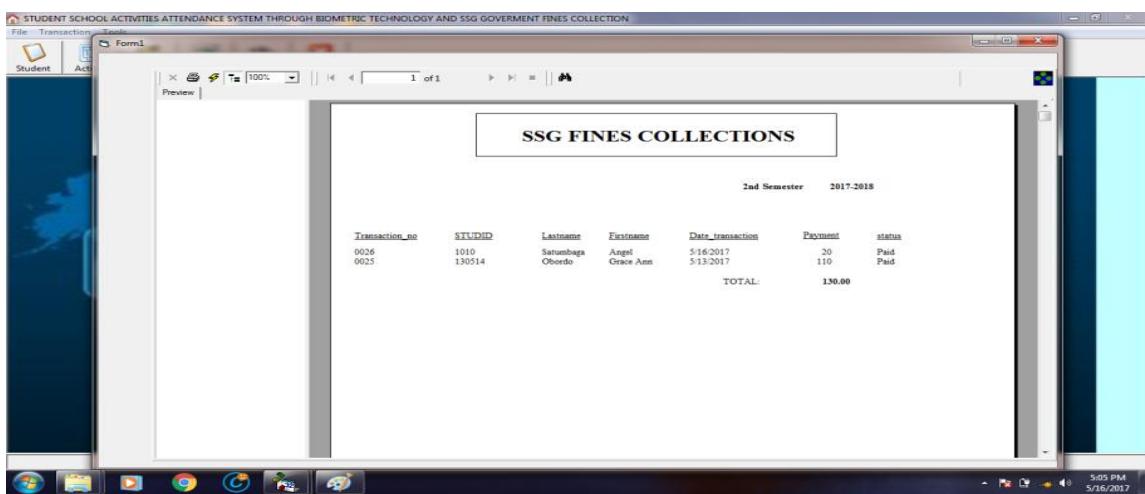
Type the ID number and click Search button to display the total fines.



To review the collection, click the Collection button and it will display the collected fines from the student. Click the Print button to print report.



The SSG Fines Collection report.





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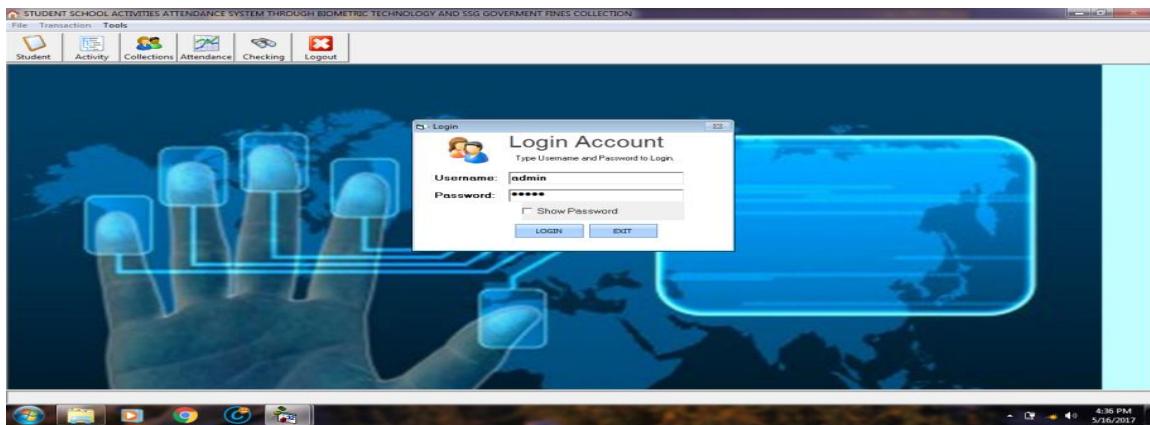
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<https://www.behance.net/gallery/4271023/PUP-Student>

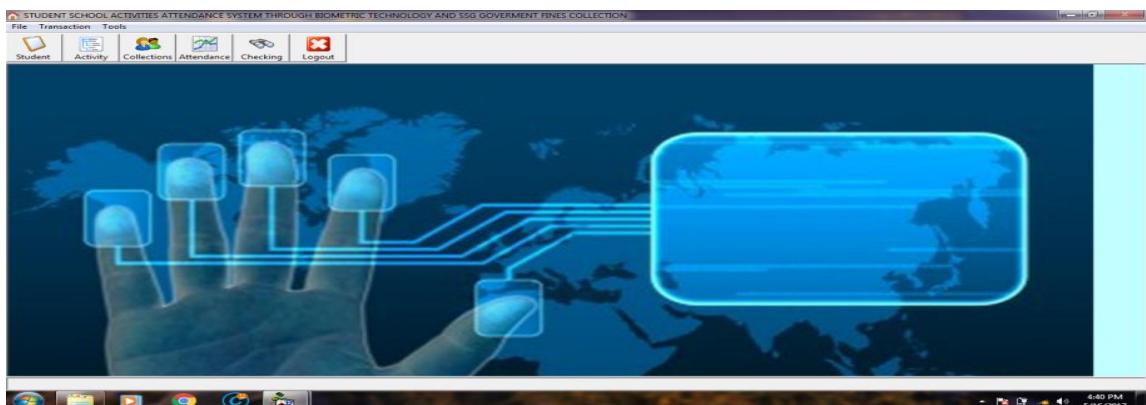
<https://www.planetbiometric.com/article-details/i/788/>

## A. USERS MANUAL

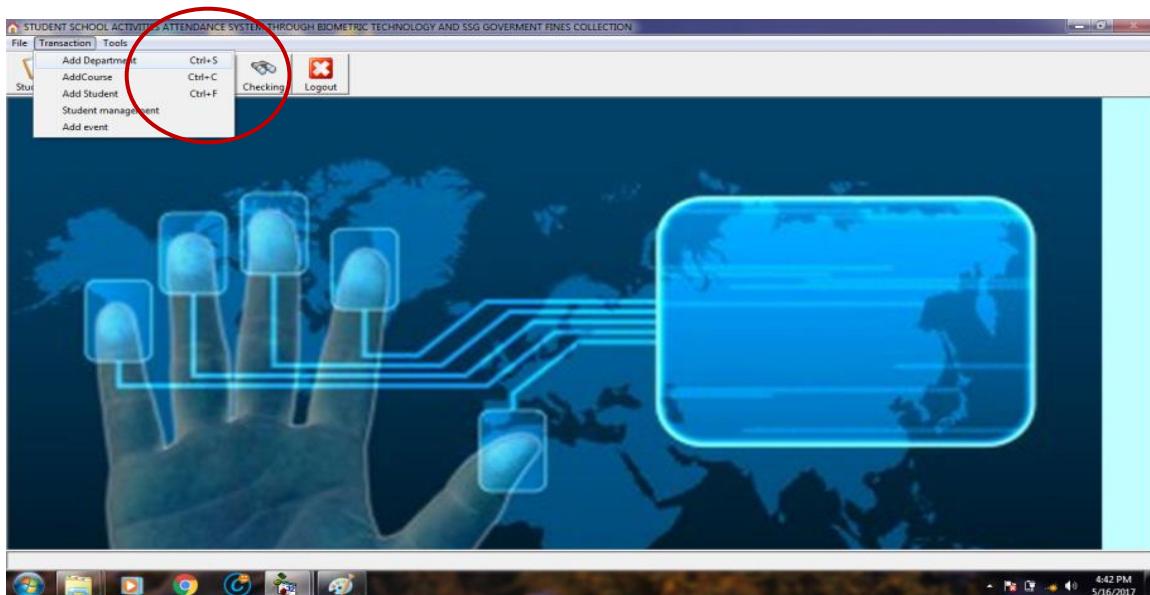
Log in using the username and password. Wait until it opens the homepage of the system.



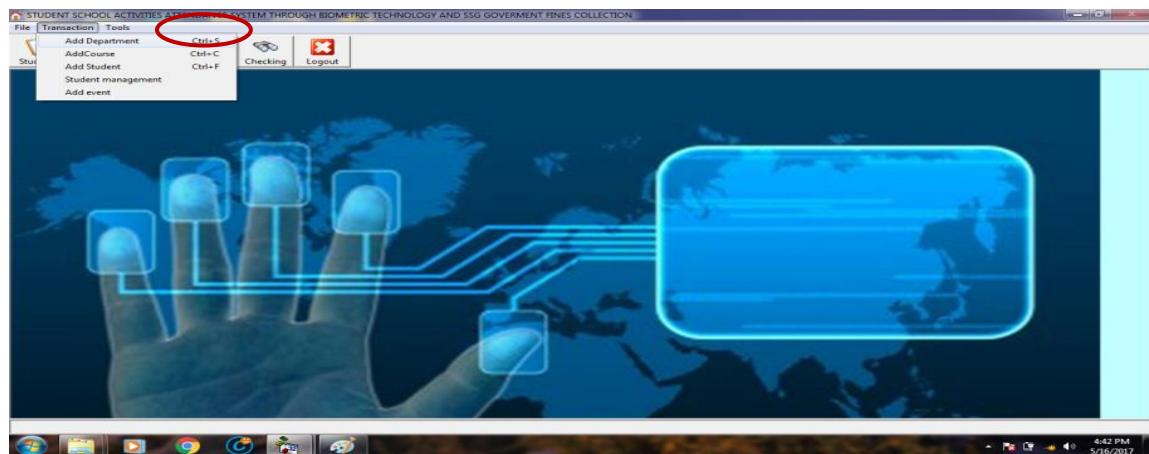
After the user log in it proceeds to the homepage of the system.



Click the transaction to add Department, Course, Student, and Event.



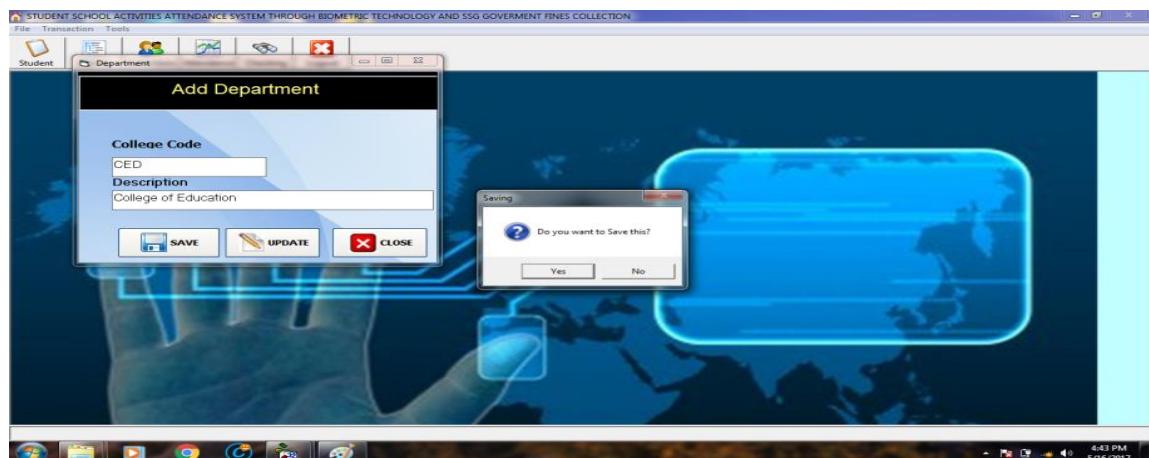
Click the Add Department to add new department to the system.



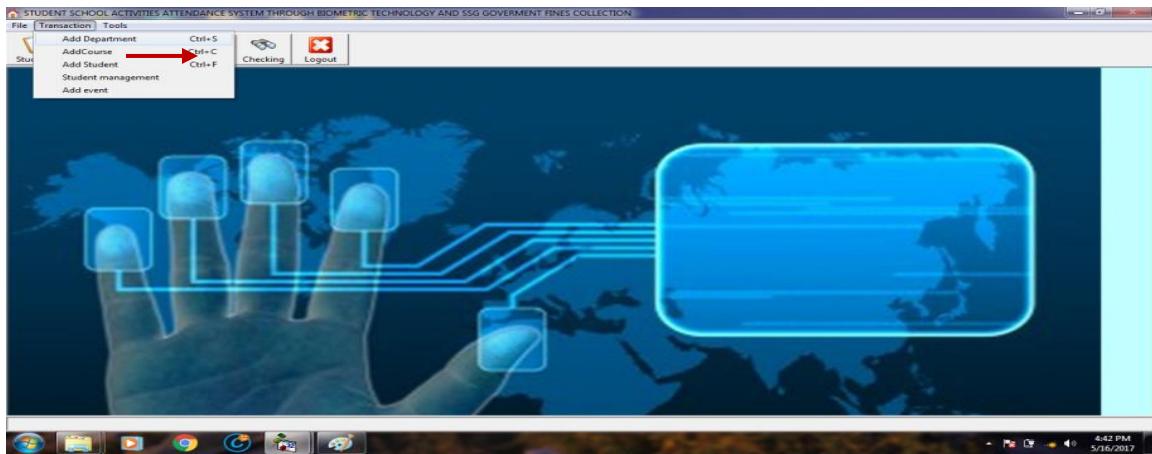
Then enter the Department Code and the Description then click Save button to save new department.



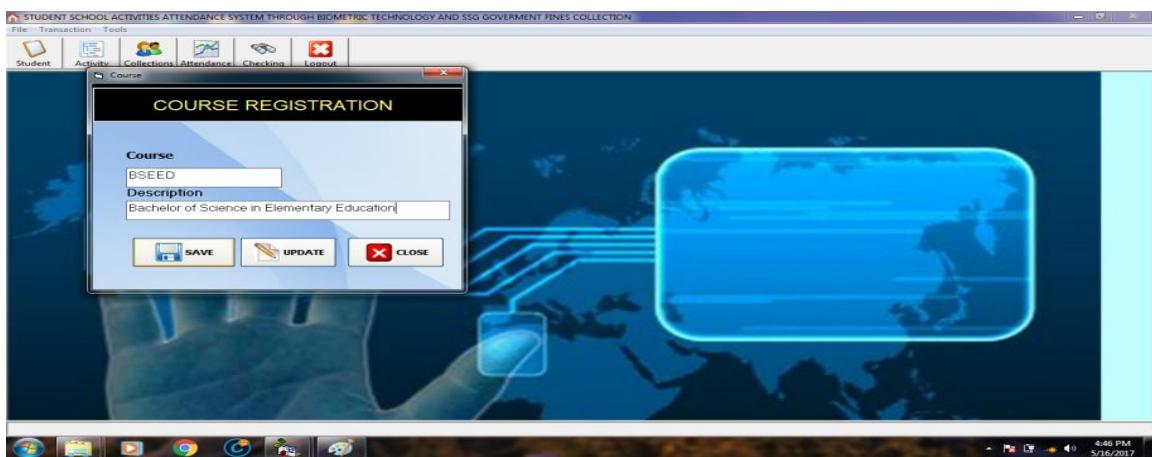
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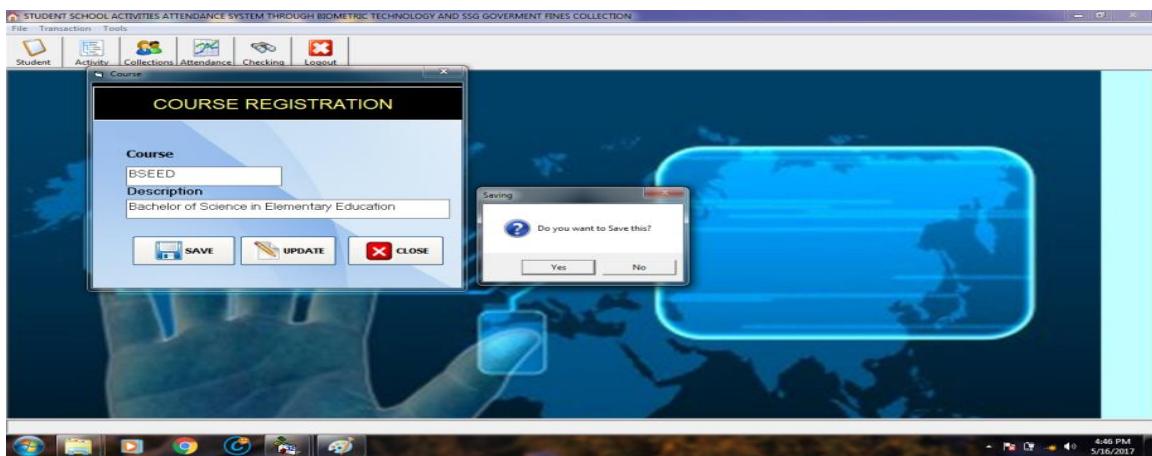
Next to is the Add Course to add new course in the system. Click the Add Course button.



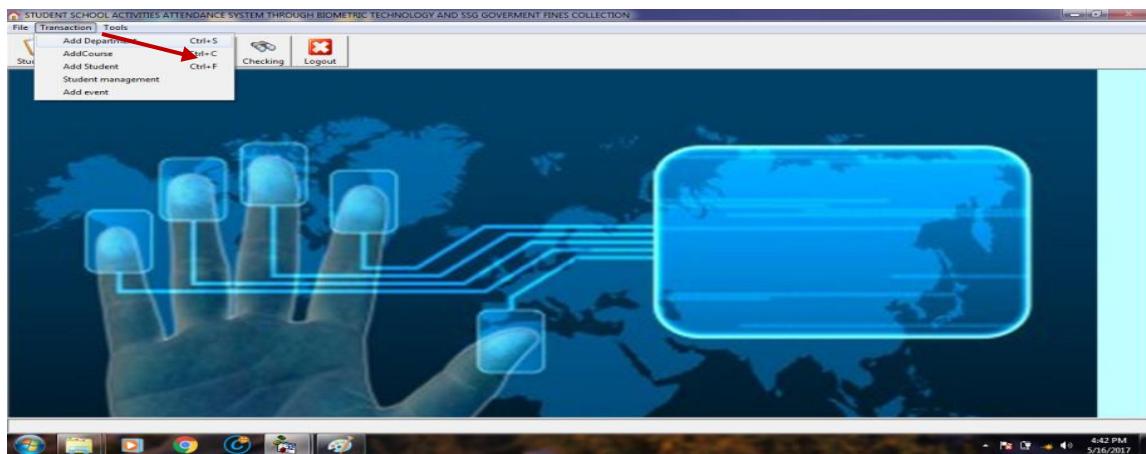
Enter the Course Code and Course Description. Click the Save button to save new course.



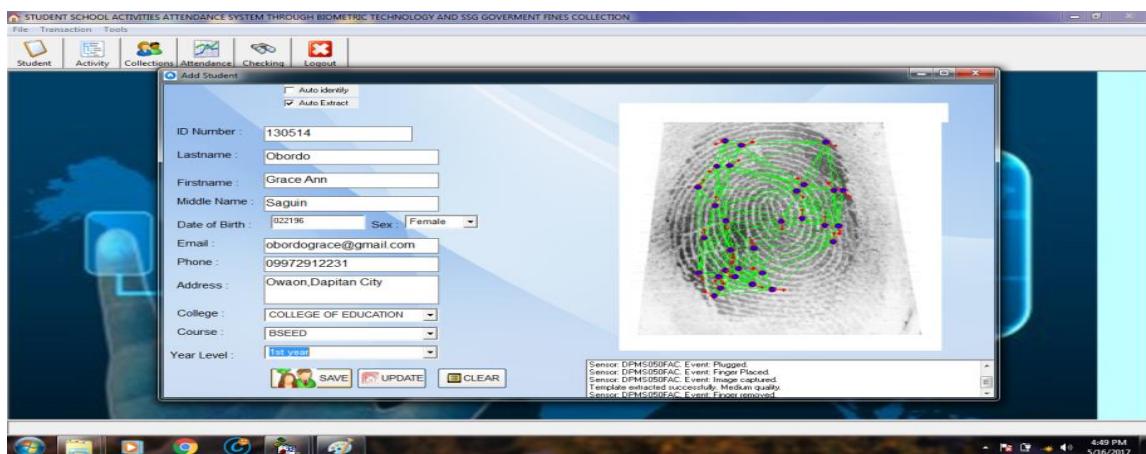
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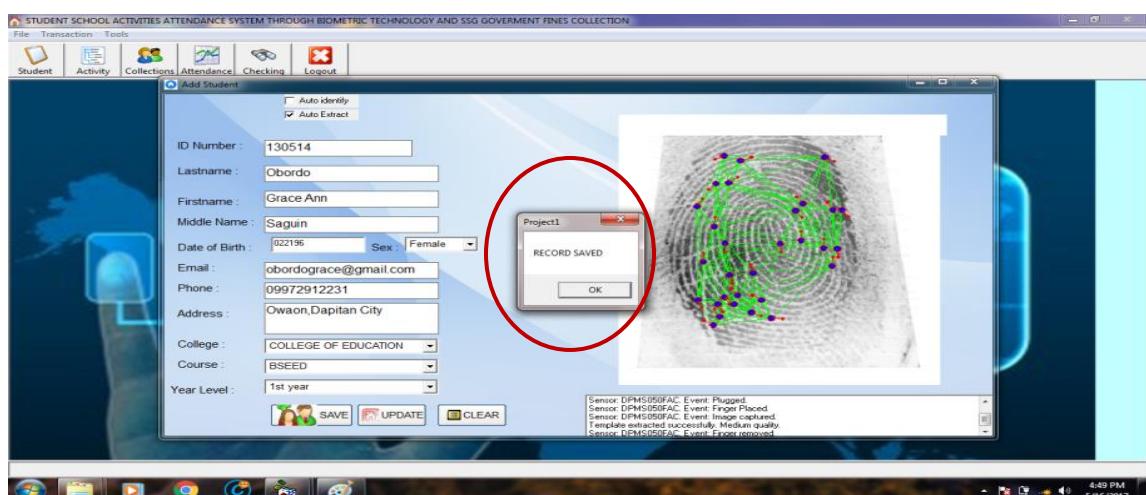
Next to is the Add Student to register a new student. Click the Add Student button.



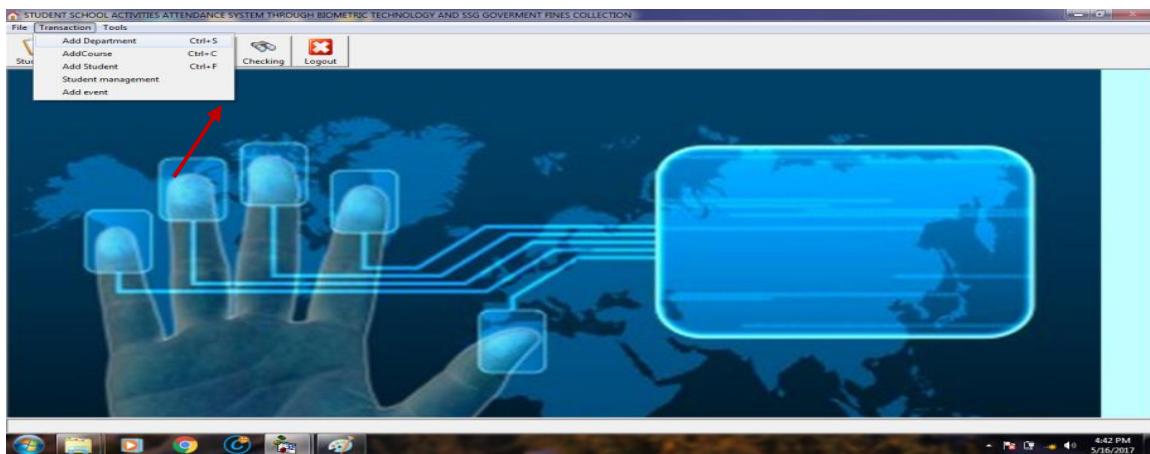
Input the needed personal information and put your finger on the fingerprint scanner to register your finger print. Click Save button when finished.



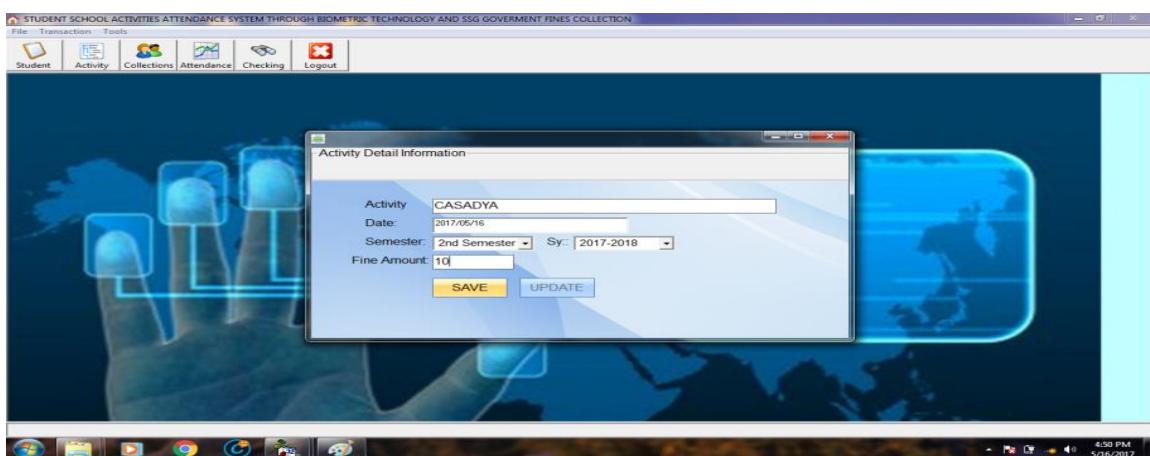
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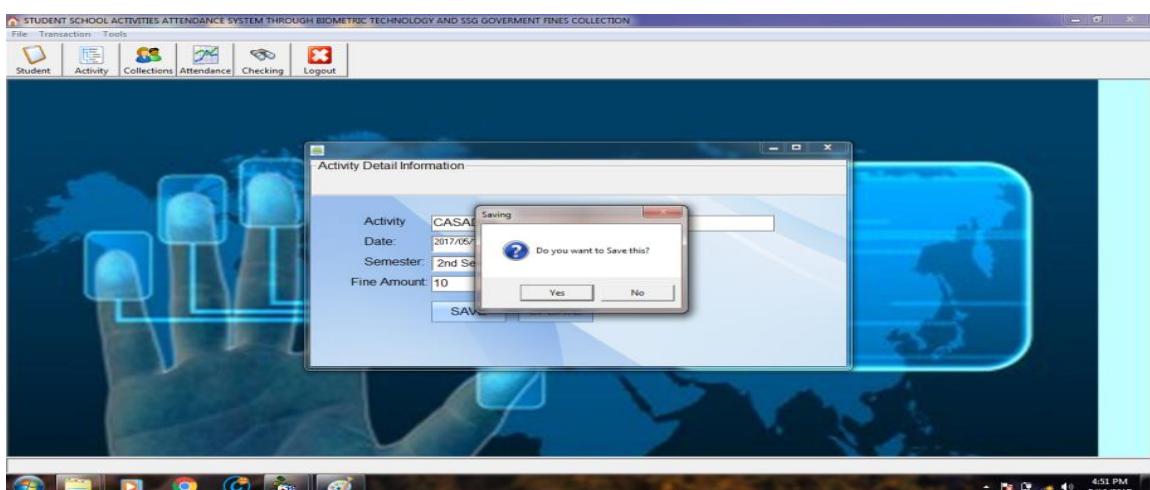
To add a new event, click the Add Event button.



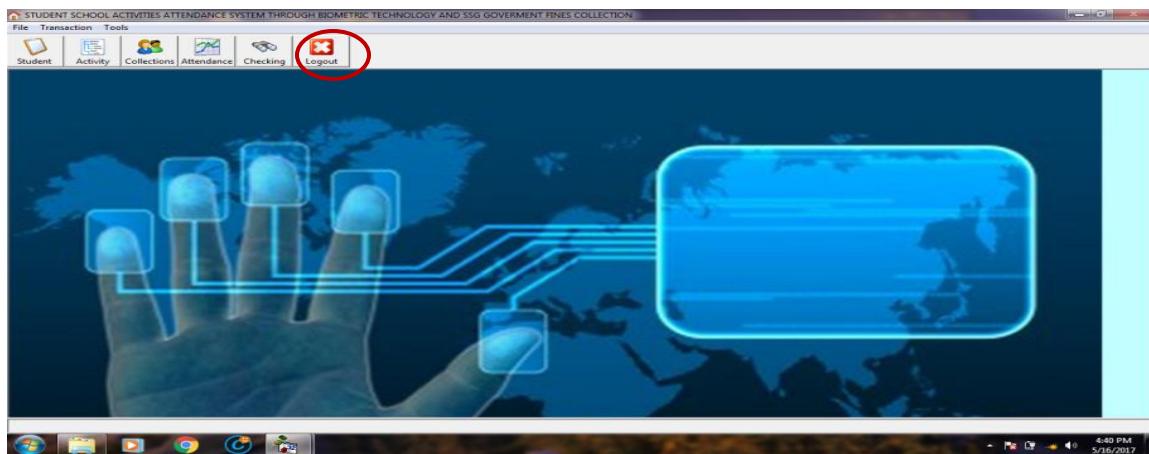
Input the name of the activity, Date, Semester, School Year and the amount of the fines to implement. Click the Save button to save the entry.



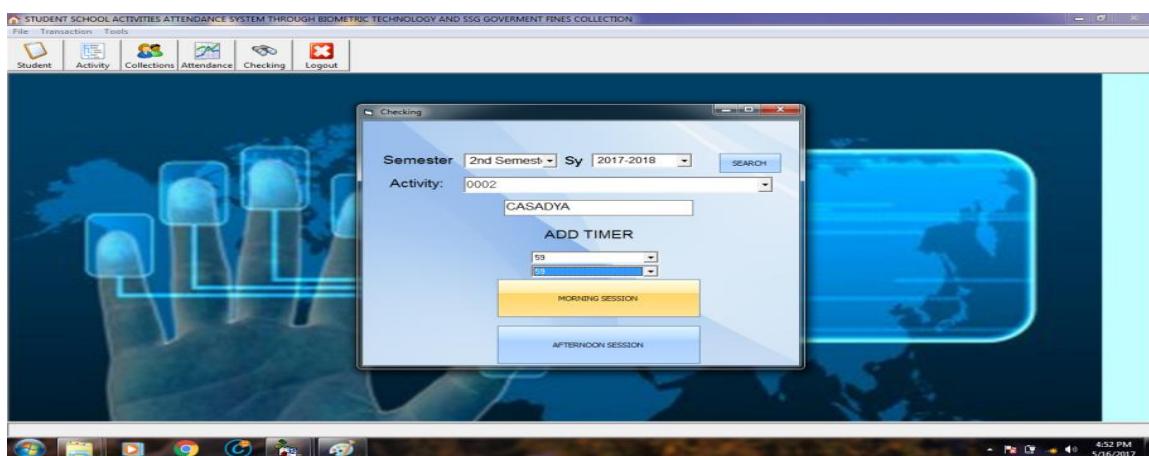
Click Save button to complete saving.



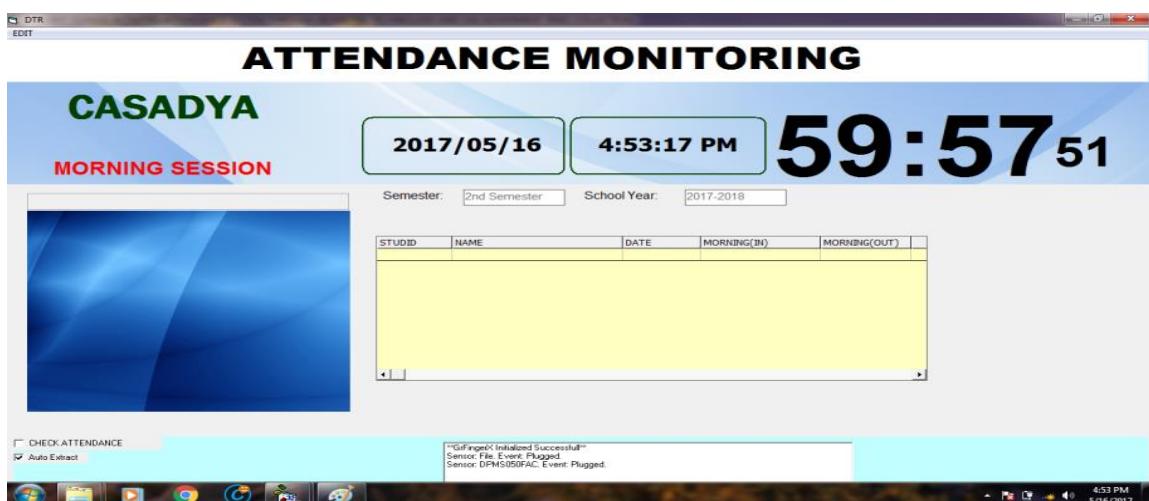
To start the attendance, click the Attendance button.



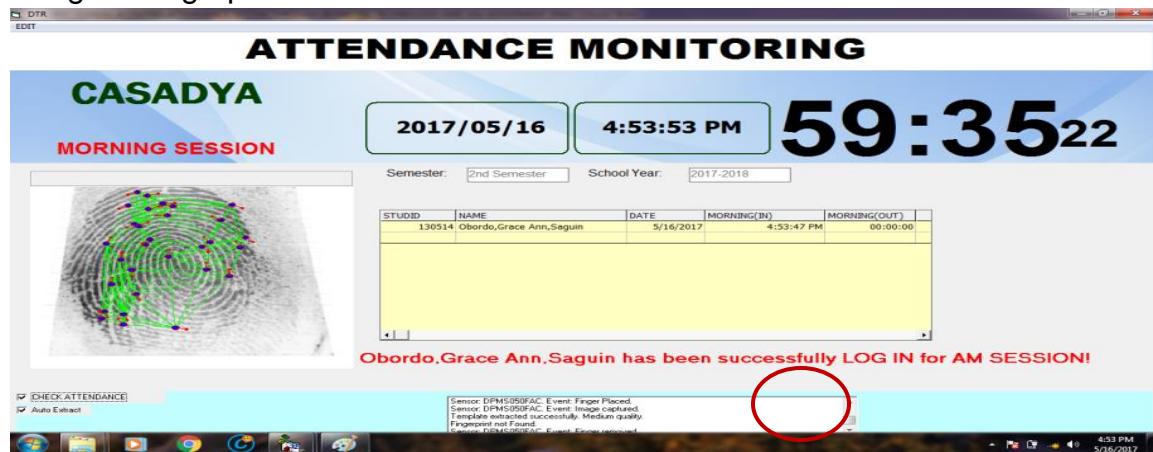
Input the needed data. Select semester, school year and activity. Set the timer for the attendance. Select whether it is for morning session or afternoon session.



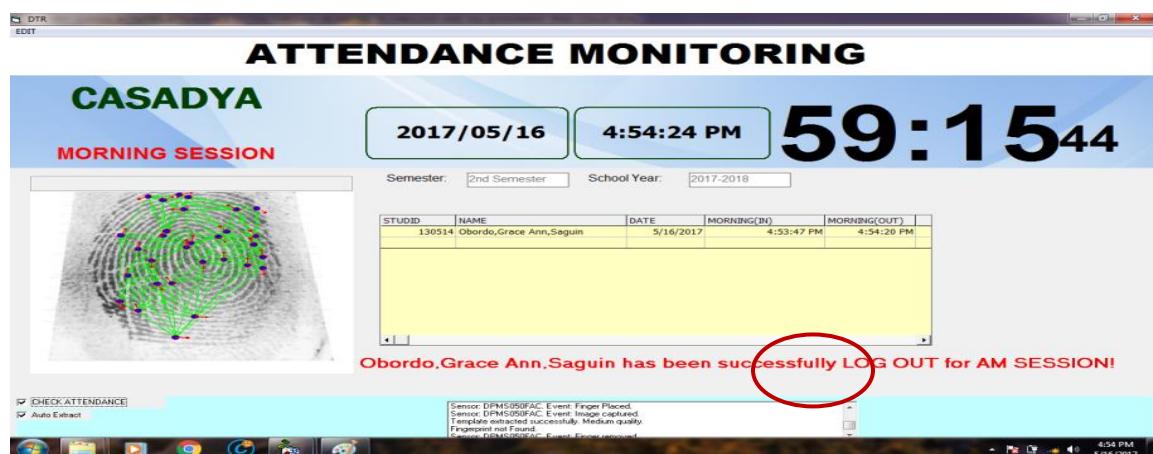
The attendance is now starting.



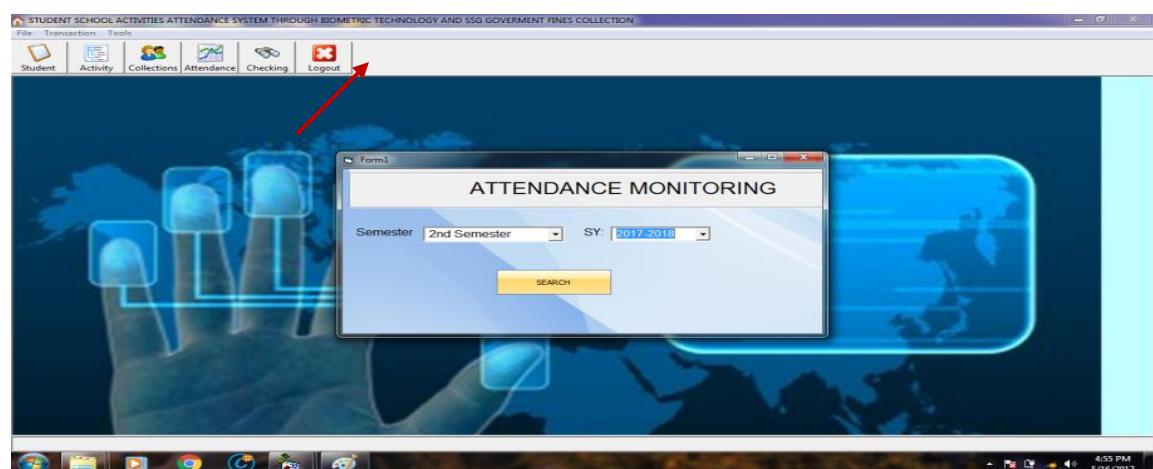
This shows the student has been successfully log in for the morning session using the fingerprint scanner.



This shows the student has been successfully log out for the morning session using the fingerprint scanner.



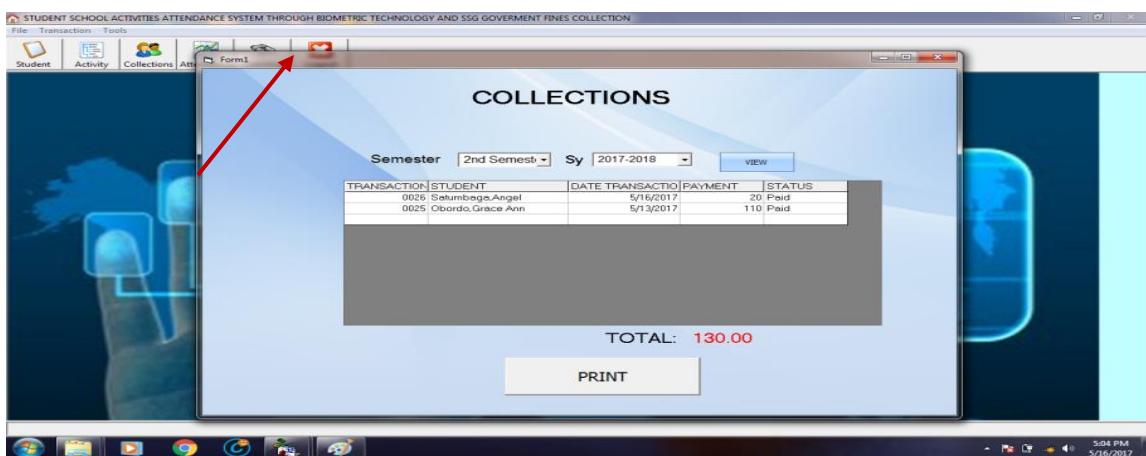
For checking the attendance and the fines, click the Checking button. Select Semester and School year and click Search button.



Type the ID number and click Search button to display the total fines.



To review the collection, click the Collection button and it will display the collected fines from the student. Click the Print button to print report.



The SSG Fines Collection report.



## B. SOURCE CODE

```

VERSION 5.00
Object      =      "{6B7E6392-850A-101B-AFC0-4210102A8DA7}#1.3#0";
"COMCTL32.OCX"
Begin VB.MDIForm main
    BackColor    =  &H00FFFFFF0&
    Caption      = "STUDENT SCHOOL ACTIVITIES ATTENDANCE SYSTEM
THROUGH BIOMETRIC TECHNOLOGY AND SSG GOVERMENT FINES
COLLECTION"
    ClientHeight = 10650
    ClientLeft   = 1275
    ClientTop    = 945
    ClientWidth  = 18945
    Icon         = "main.frx":0000
    LinkTopic    = "MDIForm1"
    Moveable     = 0 'False
    Picture      = "main.frx":038A
    Tag          = "0"
    WindowState  = 2 'Maximized
Begin ComctlLib.Toolbar Toolbar1
    Align        = 1 'Align Top
    Height       = 900
    Left         = 0
    TabIndex     = 0
    Top          = 0
    Width        = 18945
    _ExtentX    = 33417
    _ExtentY    = 1588
    ButtonWidth = 1799
    ButtonHeight = 1429
    Appearance   = 1
    ImageList    = "ImageList1"
    _Version     = 327682
BeginProperty Buttons {0713E452-850A-101B-AFC0-4210102A8DA7}
    NumButtons   = 6
BeginProperty Button1 {0713F354-850A-101B-AFC0-4210102A8DA7}
    Caption      = "Student"
    Key          = ""
    Object.Tag   = ""
    ImageIndex   = 3
EndProperty
BeginProperty Button2 {0713F354-850A-101B-AFC0-4210102A8DA7}
    Caption      = "Activity"
    Key          = ""
    Object.Tag   = ""
    ImageIndex   = 7

```

```

EndProperty
BeginProperty Button3 {0713F354-850A-101B-AFC0-4210102A8DA7}
    Caption      = "Collections"
    Key         = ""
    Object.Tag   = ""
    ImageIndex   = 6
EndProperty
BeginProperty Button4 {0713F354-850A-101B-AFC0-4210102A8DA7}
    Caption      = "Attendance"
    Key         = ""
    Object.Tag   = ""
    ImageIndex   = 8
EndProperty
BeginProperty Button5 {0713F354-850A-101B-AFC0-4210102A8DA7}
    Caption      = "Checking"
    Key         = ""
    Object.Tag   = ""
    ImageIndex   = 25
EndProperty
BeginProperty Button6 {0713F354-850A-101B-AFC0-4210102A8DA7}
    Caption      = "Logout"
    Key         = ""
    Object.Tag   = ""
    ImageIndex   = 14
EndProperty
EndProperty
Begin VB.PictureBox StatusBar1
    Height      = 375
    Left        = -480
    ScaleHeight = 315
    ScaleWidth  = 18195
    TabIndex    = 1
    Top         = 7560
    Width       = 18255
End
End
Begin VB.Timer Timer1
    Interval    = 100
    Left        = 2880
    Top         = 1920
End
Begin VB.PictureBox StatusBar2
    Align        = 2 'Align Bottom
    Height      = 375
    Left        = 0
    ScaleHeight = 315
    ScaleWidth  = 18885

```

```

TabIndex      = 2
Top          = 10275
Width         = 18945
End
Begin ComctlLib.ImageList ImageList1
    Left        = 240
    Top         = 1800
    _ExtentX   = 1005
    _ExtentY   = 1005
    BackColor   = -2147483643
    ImageWidth  = 32
    ImageHeight = 32
    MaskColor   = 16711935
    _Version    = 327682
BeginProperty Images {0713E8C2-850A-101B-AFC0-4210102A8DA7}
    NumListImages = 31
BeginProperty ListImage1 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":28082
    Key          = ""
EndProperty
BeginProperty ListImage2 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":28CD4
    Key          = ""
EndProperty
BeginProperty ListImage3 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":28EAЕ
    Key          = ""
EndProperty
BeginProperty ListImage4 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":29B00
    Key          = ""
EndProperty
BeginProperty ListImage5 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":2A752
    Key          = ""
EndProperty
BeginProperty ListImage6 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":2B3A4
    Key          = ""
EndProperty
BeginProperty ListImage7 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":2BFF6
    Key          = ""
EndProperty
BeginProperty ListImage8 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":2CC48
    Key          = ""

```

```
EndProperty
BeginProperty ListImage9 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":2D89A
    Key         = ""
EndProperty
BeginProperty ListImage10 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":2E4EC
    Key         = ""
EndProperty
BeginProperty ListImage11 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":2F13E
    Key         = ""
EndProperty
BeginProperty ListImage12 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":2FD90
    Key         = ""
EndProperty
BeginProperty ListImage13 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":309E2
    Key         = ""
EndProperty
BeginProperty ListImage14 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":31634
    Key         = ""
EndProperty
BeginProperty ListImage15 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":32286
    Key         = ""
EndProperty
BeginProperty ListImage16 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":32ED8
    Key         = ""
EndProperty
BeginProperty ListImage17 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":33B2A
    Key         = ""
EndProperty
BeginProperty ListImage18 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":3477C
    Key         = ""
EndProperty
BeginProperty ListImage19 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":353CE
    Key         = ""
EndProperty
BeginProperty ListImage20 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture      = "main.frx":36020
```

```
    Key      = ""
EndProperty
BeginProperty ListImage21 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture   = "main.frx":36C72
    Key      = ""
EndProperty
BeginProperty ListImage22 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture   = "main.frx":378C4
    Key      = ""
EndProperty
BeginProperty ListImage23 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture   = "main.frx":38516
    Key      = ""
EndProperty
BeginProperty ListImage24 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture   = "main.frx":39168
    Key      = ""
EndProperty
BeginProperty ListImage25 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture   = "main.frx":39DBA
    Key      = ""
EndProperty
BeginProperty ListImage26 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture   = "main.frx":3AA0C
    Key      = ""
EndProperty
BeginProperty ListImage27 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture   = "main.frx":3B65E
    Key      = ""
EndProperty
BeginProperty ListImage28 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture   = "main.frx":3C2B0
    Key      = ""
EndProperty
BeginProperty ListImage29 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture   = "main.frx":3CF02
    Key      = ""
EndProperty
BeginProperty ListImage30 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture   = "main.frx":3DB54
    Key      = ""
EndProperty
BeginProperty ListImage31 {0713E8C3-850A-101B-AFC0-4210102A8DA7}
    Picture   = "main.frx":3E7A6
    Key      = ""
EndProperty
EndProperty
```

```
End
Begin VB.Menu mnuFile
    Caption      =  "&File"
    NegotiatePosition=  1 'Left
    Begin VB.Menu mnuOut
        Caption      =  "Log Out"
    End
    Begin VB.Menu mnubreak1
        Caption      =  "-"
    End
    Begin VB.Menu mnuExit
        Caption      =  "Exit"
    End
End
Begin VB.Menu mnuTrans
    Caption      =  "&Transaction"
    Begin VB.Menu mnuIn
        Caption      =  "Add Department"
        Shortcut     =  ^S
    End
    Begin VB.Menu rr
        Caption      =  "AddCourse"
        Shortcut     =  ^C
    End
    Begin VB.Menu mnuReserve
        Caption      =  "Add Student"
        Shortcut     =  ^F
    End
    Begin VB.Menu hghg
        Caption      =  "Student management"
    End
    Begin VB.Menu Smaple
        Caption      =  "Add event"
    End
End
Begin VB.Menu mnuTool
    Caption      =  "T&ools"
    Begin VB.Menu mnuCalc
        Caption      =  "Calculator"
    End
End
Attribute VB_Name = "main"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PreDeclaredId = True
Attribute VB_Exposed = False
```

```

Private Sub cashout_Click()
End
SubPrivate Sub Command8_Click()End SubPrivate Sub Command9_Click()
End
SubPrivate Sub Command10_Click()End SubPrivate Sub Command11_Click()End Sub
SubPrivate Sub Command12_Click()End SubPrivate Sub Command13_Click()
ChangeRoom.Show 1End SubPrivate Sub Command7_Click()
frmDepartureDates.Show
End
SubPrivate Sub Command1_Click()
Load MDIForm
MDIForm.Show
End
SubPrivate Sub Label2_Change()
Set ra = New ADODB.Recordset
With ra
    .Open "Select * FROM tblPrivilage ", cn, 2, 3
    Do While Not .EOF
        If !AccountNum = Label2.Caption Then
            If !Checkin = True Then
                Toolbar1.Buttons(2).Visible = True
            Else
                Toolbar1.Buttons(2).Visible = False
            End If
        -----
        If !Checkout = True Then
            Toolbar1.Buttons(4).Visible = True
        Else
            Toolbar1.Buttons(4).Visible = False
        End If
        -----
        If !Reservation = True Then
            Toolbar1.Buttons(6).Visible = True
        Else
            Toolbar1.Buttons(6).Visible = False
        End If
        -----
        If !AddGuest = True Then
            frmGuest.Command1.Enabled = True
        Else
            frmGuest.Command1.Enabled = False
        End If
        -----
        If !addroom = True Then
            frmRoom.Command2.Enabled = True
        Else

```

```
    frmRoom.Command2.Enabled = False
End If
'-----
If !ChangeRoom = True Then
    Toolbar1.Buttons(12).Visible = True
Else
    Toolbar1.Buttons(12).Visible = False
End If
'-----
If !Receipt = True Then
    frmCheckout.Command4.Enabled = True
Else
    frmCheckout.Command4.Enabled = False
End If
'-----
If !CheckinReport = True Then
    frmCheckin.Command11.Enabled = True
Else
    frmCheckin.Command11.Enabled = False
End If
'-----
If !cashout = True Then
    main.cashout.Enabled = True
Else
    main.cashout.Enabled = False
End If
'-----
If !Archive = True Then
    main.mnuArchive.Enabled = True
Else
    main.mnuArchive.Enabled = False
End If
'-----
If !AddCharge = True Then
    frmCheckin.Command10.Enabled = True
Else
    frmCheckin.Command10.Enabled = False
End If
'-----
If !AddDiscount = True Then
    frmCheckin.Combo3.Enabled = True
    frmReserve.Combo2.Enabled = True
Else
    frmCheckin.Combo3.clear
    frmCheckin.Combo3.AddItem "none"
    frmReserve.Combo2.clear
```

```

        frmReserve.Combo2.AddItem "none"
    End If
    -----
    If !account = True Then
        main.addaccount.Enabled = True
        frmSettings.Command1.Enabled = True
    Else
        main.addaccount.Enabled = False
        frmSettings.Command1.Enabled = False
    End If
    -----
    Exit Do
Else
    .MoveNext
End If
Loop
End With
End SubPrivate Sub Command14_Click()
'frmSearch.Show 1
End SubPrivate Sub hghg_Click()
Formstudentsmanagement.Show 1
End SubPrivate Sub MDIForm_Load()
    DisableXbutton main.hWnd
    main.mnuFile.Enabled = False
    main.mnuTrans.Enabled = False
    Toolbar1.Enabled = False
    'DTPicker1.Value = Format(Now, "mm-dd-yyyy")
    'Label1.Caption = DTPicker1.Value
    Title = "STUDENT SCHOOL ACTIVITIES ATTENDANCE SYSTEM THROUGH
BIOMETRIC TECHNOLOGY AND SSG GOVERNMENT FINES COLLECTION"
    Me.top = 50
    Me.left = 1530
    Me.height = 10770
    Me.width = 16170
    'connection
    'Label5.Caption = main.DTPicker1.Value + 1
End SubPrivate Sub MDIForm_Unload(Cancel As Integer)
If Label3.Caption = "A" Then
Else
    a = MsgBox("You sure you want to exit?", vbQuestion + vbYesNo, "Note")
    If a = vbYes Then
        End
    Else
        Cancel = 1
    End If
End If
End If

```

```
End SubPrivate Sub mnuArchive_Click()
frmArchive.Show 1
End SubPrivate Sub mnuCalc_Click()
Dim path As String
Dim runExe As Doublepath = "calc.exe"
runExe = Shell(path, vbMaximizedFocus)
End SubPrivate Sub mnuChange_Click()
ChangeRoom.Show 1
End SubPrivate Sub mnuCharge_Click()
frmChargeType.Show 1
End SubPrivate Sub mnuCheckinList_Click()
frmCheckin.Show 1
frmCheckin.SSTab1.Tab = 1
End SubPrivate Sub mnuCheckinReport_Click()
CheckinReport.Show 1
End SubPrivate Sub mnuCheckOut_Click()
frmCheckout.Show 1
End SubPrivate Sub mnuCheckoutList_Click()
frmCheckout.Show 1
End SubPrivate Sub mnuCheckoutReport_Click()
CheckoutReport.Show 1
End SubPrivate Sub mnuDisc_Click()
frmDiscount.Show 1
End SubPrivate Sub mnuDaily_Click()
Formshow.Show 1
End SubPrivate Sub mnuExit_Click()
a = MsgBox("You sure you want to exit?", vbQuestion + vbYesNo, "Note")
If a = vbYes Then
    End
Else
End If
End SubPrivate Sub mnuGuest_Click()
frmGuest.SSTab1.Tab = 1
frmGuest.Show 1
End SubPrivate Sub mnuIn_Click()
FormDept.Show 1
End SubPrivate Sub mnuOut_Click()
a = MsgBox("You sure you want to Logout?", vbQuestion + vbYesNo, "Note")
If a = vbYes Then
    Me.Hide
    Load frmLogin
    frmLogin.Show
Else
End If
End SubPrivate Sub mnuOverStay_Click()
frmOverStaying.Show 1
End SubPrivate Sub mnuReserve_Click()
```

```

Formadd.Show 1
End SubPrivate Sub mnuReserveList_Click()
frmReserve.Show 1
frmReserve.SSTab1.Tab = 1
End SubPrivate Sub mnuReserveCancel_Click()
frmReserve.SSTab1.Tab = 1
frmReserve.Show 1
End SubPrivate Sub mnuReserveReport_Click()
    ReservationReport.Show 1
End SubPrivate Sub mnuRoom_Click()
frmRoom.SSTab1.Tab = 1
frmRoom.Show 1
End SubPrivate Sub printroom_Click()
Set rr = New ADODB.Recordset
With rr
    .Open "SELECT * FROM tblRoom", cn, 2, 3
    Set RoomReport.DataSource = rr
    RoomReport.Sections("Section3").Controls("Label38").Caption =
MonthName(Month(Now)) & " " & Day(Now) & ", " & Year(Now) & " " &
TimeValue(Now)
    RoomReport.Sections("Section2").Controls("Label12").Caption = "As of " &
MonthName(Month(Now)) & " " & Day(Now) & ", " & Year(Now)
    RoomReport.Sections("Section3").Controls("Label14").Caption =
UCase(main.Label4.Caption)
    ' WeekdayName (Weekday(Now))
    RoomReport.Show 1
End With
End SubPrivate Sub RoomTypes_Click()
frmRoomType.Show 1
End SubPrivate Sub searchguest_Click()
frmsearchguest.Show 1
End SubPrivate Sub searchroom_Click()
frmsearchroom.Show 1
End SubPrivate Sub rr_Click()
FormCourse.Show 1
End SubPrivate Sub Smample_Click()
FormAvtivyManagement.Show 1
End SubPrivate Sub Timer1_Timer()
StatusBar1.Panels(3).Text = " Today is " & MonthName(Month(Now)) & " " &
Day(Now) & ", " & Year(Now) & " " & TimeValue(Now)
End SubPrivate Sub Toolbar1_ButtonClick(ByVal Button As ComctlLib.Button)
Select Case Button.Index
Case 1
    Formstudentsmanagement.Show 1
Case 2
    FormsActivities.Show 1
Case 3

```

```

FormCollections.Show 1
Case 4
  Formsession.Show 1
Case 5
  FormMonitoring.Show 1
Case 6
Case 7
Case 8
'Formstudentsmanagement.Show 1
Case 18
End Select
End Sub

```

---

## VERSION 5.00

```

Begin VB.Form frmLogin
  Appearance      = 0 'Flat
  BackColor       = &H80000005&
  BorderStyle     = 1 'Fixed Single
  Caption         = "Login"
  ClientHeight    = 3240
  ClientLeft      = 7335
  ClientTop       = 5025
  ClientWidth     = 5670
  BeginProperty Font
    Name           = "MS Sans Serif"
    Size           = 9.75
    Charset        = 0
    Weight         = 700
    Underline      = 0 'False
    Italic          = 0 'False
    Strikethrough  = 0 'False
  EndProperty
  LinkTopic       = "Form1"
  MaxButton       = 0 'False
  MDIChild        = -1 'True
  MinButton       = 0 'False
  ScaleHeight     = 3240
  ScaleWidth      = 5670
  Begin VB.CheckBox chkShow
    Caption         = "Show Password"
    BeginProperty Font
      Name           = "MS Sans Serif"
      Size           = 9.75
      Charset        = 0
      Weight         = 400
      Underline      = 0 'False
      Italic          = 0 'False
    EndProperty
  EndVB.CheckBox
EndVB.Form

```

```

    Strikethrough = 0 'False
EndProperty
Height      = 495
Left       = 1920
TabIndex   = 6
Top        = 1920
Width      = 2895
End
Begin VB.TextBox TextUname
    Height     = 360
    Left       = 1680
    MaxLength  = 18
    TabIndex   = 3
    Text       = "admin"
    ToolTipText = "Type your Username"
    Top        = 1080
    Width      = 3135
End
Begin VB.TextBox txtPassword
    BeginProperty Font
        Name      = "Wingdings"
        Size      = 8.25
        Charset   = 2
        Weight    = 400
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height     = 360
    IMEMode    = 3 'DISABLE
    Left       = 1680
    MaxLength  = 18
    PasswordChar = "I"
    TabIndex   = 2
    Text       = "admin"
    ToolTipText = "Type your Password"
    Top        = 1560
    Width      = 3135
End
Begin Project1.jcbutton cmdok
    Height     = 375
    Left       = 1800
    TabIndex   = 7
    Top        = 2520
    Width      = 1215
    _ExtentX   = 2143
    _ExtentY   = 661

```

```

ButtonStyle = 7
BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
  Name      = "Tahoma"
  Size      = 8.25
  Charset   = 0
  Weight    = 400
  Underline = 0 'False
  Italic    = 0 'False
  Strikethrough = 0 'False
EndProperty
BackColor = 16765357
Caption   = "LOGIN"
UseMaskColor = -1 'True
End
Begin Project1.jcbutton jcbutton2
  Height    = 375
  Left      = 3120
  TabIndex  = 8
  Top       = 2520
  Width     = 1215
  _ExtentX  = 2143
  _ExtentY  = 661
  ButtonStyle = 7
BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
  Name      = "Tahoma"
  Size      = 8.25
  Charset   = 0
  Weight    = 400
  Underline = 0 'False
  Italic    = 0 'False
  Strikethrough = 0 'False
EndProperty
BackColor = 16765357
Caption   = "EXIT"
UseMaskColor = -1 'True
End
Begin VB.Shape Shape1
  BackColor = &H00FFFFFF&
  BackStyle = 1 'Opaque
  BorderStyle = 0 'Transparent
  Height    = 975
  Left      = 120
  Top       = 2400
  Width     = 6255
End
Begin VB.Label Label2
  AutoSize  = -1 'True

```

```

BackStyle      = 0 'Transparent
Caption       = "Password:"
ForeColor     = &H00000000&
Height        = 195
Index         = 1
Left          = 360
TabIndex      = 5
Top           = 1605
Width         = 1575
End
Begin VB.Label Label2
    AutoSize      = -1 'True
    BackStyle     = 0 'Transparent
    Caption       = "Username:"
    ForeColor     = &H00000000&
    Height        = 195
    Index         = 0
    Left          = 360
    TabIndex      = 4
    Top           = 1125
    Width         = 1485
End
Begin VB.Image Image1
    Height        = 735
    Left          = 600
    Picture       = "frmLogin.frx":0000
    Top           = 120
    Width         = 720
End
Begin VB.Label Label5
    AutoSize      = -1 'True
    BackStyle     = 0 'Transparent
    Caption       = "Type Username and Password to Login."
    BeginProperty Font
        Name          = "MS Sans Serif"
        Size          = 8.25
        Charset       = 0
        Weight        = 400
        Underline     = 0 'False
        Italic        = 0 'False
        Strikethrough = 0 'False
    EndProperty
    ForeColor     = &H00000000&
    Height        = 195
    Left          = 1800
    TabIndex      = 1
    Top           = 600

```

```

Width      = 2835
End
Begin VB.Label Label3
    AutoSize     = -1 'True
    BackStyle    = 0 'Transparent
    Caption      = "Login Account"
    BeginProperty Font
        Name         = "Arial"
        Size         = 21.75
        Charset      = 0
        Weight       = 400
        Underline    = 0 'False
        Italic       = 0 'False
        Strikethrough = 0 'False
    EndProperty
    ForeColor    = &H00404040&
    Height       = 495
    Left         = 1680
    TabIndex     = 0
    Top          = 0
    Width        = 2265
End
Begin VB.Shape Shape2
    BackColor    = &H00FFFFFF&
    BackStyle    = 1 'Opaque
    BorderStyle  = 0 'Transparent
    Height       = 1095
    Left         = 0
    Top          = 0
    Width        = 6255
End
End
Attribute VB_Name = "frmLogin"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
Public Cashier As String
Private Sub cmdCancel_Click()
    End
End Sub
Private Sub cmdOK_Click()
    On Error GoTo error_handler
    Dim sfound As Boolean
    Dim uname, pass As String
    sfound = False
    frmMySQL_setting.server_properties
    If ConnectMySQL_Server = True Then
        If MySQLConnect_Recordset("select * from login where username='"
        & TextUname.Text & "' and password='"
        & txtPassword.Text & "'") = True Then

```

```

With DataRec
If Not .EOF Then
  If TextUname.Text = "noname" Then
    frmmysql_setting.Show
End If
  uname = .Fields("username").Value
  pass = .Fields("password").Value
  If uname = TextUname.Text And pass = txtPassword.Text Then

    Call MainMenu ' Call Procedure
    Call menuenable
    Unload Me
    Unload frmmysql_setting
    'Cashier = !fullname
    sfound = True
  End If
End If
End With
If sfound = False Then
  MsgBox "Invalid Username or Password", vbCritical, "log in"
End If
'error_handler: :2147467259
Else
  'frmmysql_setting.Show
  ' Me.Hide
End If
End If
End Sub
Sub menuenable()
If ConnectMySql_Server = True Then
  If MySqlConnect_Recordset("select * from login where username='"
    & TextUname.Text & "' and password='"
    & txtPassword.Text & "'") = True Then
    With DataRec
      If Not .EOF Then
        Select Case TextUname.Text
        Case "Guest"
          FormMain.mnunpurchase.Enabled = False
        End Select
        'If !User1 = "Guest" Then
        '  FormMain.mnunpurchase.Enabled = False
        '  FormMain.mnuFile.Enabled = True
        '  FormMain.mnuView.Enabled = False
        '  FormMain.mnuReport.Enabled = True
        '  FormMain.mnuSSetting.Enabled = False
        '  FormMain.mnuAbout.Enabled = False
        'ElseIf !User1 = "Admin" Then
        '  FormMain.mnuFile.Enabled = True
      End If
    End Sub
  End If
End If

```

```

    ' FormMain.mnuView.Enabled = True
    'FormMain.mnureport.Enabled = True
    'FormMain.mnuSSetting.Enabled = True
    ' FormMain.mnuAbout.Enabled = True

    End If
End With
End If
End If
End SubPrivate Sub cmdQuit_Click()
End

End SubPrivate Sub chkShow_Click()
If chkShow.Value = 1 Then
    txtPassword.PasswordChar = ""
    txtPassword.Font = "MS Sans Serif"
Else
    txtPassword.Font = "Wingdings"
    txtPassword.PasswordChar = "I"
End If
End SubPrivate Sub Form_Load()
    ' frmLogin.Width = 0  '(Screen.Height - frmLogin.Height) / 2 + 900
    frmLogin.top = 1500  '(Screen.Width - frmLogin.Top) / 2 - 6000
    frmLogin.left = 7200 '(Screen.Height + frmLogin.Left) - 5000
    DisableXbutton frmLogin.hWnd
    ' frmmysql_setting.Show
End SubSub MainMenu()
main.mnuFile.Enabled = True
main.mnuTrans.Enabled = True
    main.Toolbar1.Enabled = True  main.Toolbar1.Enabled = TrueEnd SubPrivate
Sub txtUsername_KeyDown(KeyCode As Integer, Shift As Integer)
Select Case KeyCode
    Case 13, 38, 40
        txtPassword.SetFocus
        ' SendKeys "{home}+{end}"
End Select
End SubPrivate Sub jcbutton2_Click()
End
End SubPrivate Sub txtPassword_KeyDown(KeyCode As Integer, Shift As Integer)
Select Case KeyCode
    Case 13
        cmdOK_Click
    Case 38, 40
        txtUsername.SetFocus
        'SendKeys "{home}+{end}"
End Select
End Sub

```

---

```
VERSION 5.00
Object      =      "{86CF1D34-0C5F-11D2-A9FC-0000F8754DA1}#2.0#0";
"MSCOMCT2.ocx"
Begin VB.Form Formaddstudent
    Caption      = "Add Student"
    ClientHeight = 8055
    ClientLeft   = 120
    ClientTop    = 450
    ClientWidth  = 9480
    Icon         = "Formaddstudent.frx":0000
    LinkTopic    = "Form1"
    Picture      = "Formaddstudent.frx":2BADF
    ScaleHeight  = 8055
    ScaleWidth   = 9480
    StartUpPosition = 2 'CenterScreen
    Begin VB.ComboBox Comboyear
        BeginProperty Font
            Name      = "Arial"
            Size     = 9.75
            Charset  = 0
            Weight   = 400
            Underline = 0 'False
            Italic   = 0 'False
            Strikethrough = 0 'False
        EndProperty
        Height    = 360
        Left      = 1800
        TabIndex  = 25
        Top       = 6720
        Width     = 3135
    End
    Begin VB.ComboBox CombCourse
        BeginProperty Font
            Name      = "Arial"
            Size     = 9.75
            Charset  = 0
            Weight   = 400
            Underline = 0 'False
            Italic   = 0 'False
            Strikethrough = 0 'False
        EndProperty
        Height    = 360
        Left      = 1800
        TabIndex  = 24
        Top       = 6240
        Width     = 3135
    End
End
```

```
End
Begin VB.ComboBox ComboCollege
    BeginProperty Font
        Name      = "Arial"
        Size      = 9.75
        Charset   = 0
        Weight    = 400
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height     = 360
    Left       = 1800
    TabIndex   = 21
    Top        = 5760
    Width      = 3135
End
Begin VB.TextBox Textaddress
    Appearance = 0 'Flat
    BeginProperty Font
        Name      = "Arial"
        Size      = 12
        Charset   = 0
        Weight    = 400
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height     = 735
    Left       = 1800
    TabIndex   = 19
    Top        = 4920
    Width      = 3135
End
Begin VB.TextBox TextPhone
    Appearance = 0 'Flat
    BeginProperty Font
        Name      = "Arial"
        Size      = 12
        Charset   = 0
        Weight    = 400
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height     = 390
    Left       = 1800
```

```

TabIndex      = 17
Top          = 4440
Width        = 3135
End
Begin VB.TextBox Textemail
    Appearance = 0 'Flat
    BeginProperty Font
        Name      = "Arial"
        Size      = 12
        Charset   = 0
        Weight    = 400
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height     = 390
    Left       = 1800
    TabIndex   = 15
    Top        = 3960
    Width      = 3135
End
Begin VB.ComboBox Combosex
    BeginProperty Font
        Name      = "Arial"
        Size      = 9.75
        Charset   = 0
        Weight    = 400
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height     = 360
    ItemData   = "Formaddstudent.frx":33A2F
    Left       = 4320
    List       = "Formaddstudent.frx":33A39
    TabIndex   = 13
    Top        = 3360
    Width      = 1335
End
Begin MSComCtl2.DTPicker DTPicker1
    Height     = 375
    Left       = 1800
    TabIndex   = 11
    Top        = 3360
    Width      = 1695
    _ExtentX   = 2990
    _ExtentY   = 661

```

```
_Version      = 393216
BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
    Name          = "MS Sans Serif"
    Size          = 9.75
    Charset       = 0
    Weight        = 400
    Underline     = 0 'False
    Italic         = 0 'False
    Strikethrough = 0 'False
EndProperty
Format        = 182124545
CurrentDate   = 42797
End
Begin VB.TextBox TextMiddlename
    Appearance    = 0 'Flat
    BeginProperty Font
        Name          = "Arial"
        Size          = 12
        Charset       = 0
        Weight        = 400
        Underline     = 0 'False
        Italic         = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height         = 390
    Left           = 1800
    TabIndex       = 5
    Top            = 2880
    Width          = 3135
End
Begin VB.TextBox Textfirstname
    Appearance    = 0 'Flat
    BeginProperty Font
        Name          = "Arial"
        Size          = 12
        Charset       = 0
        Weight        = 400
        Underline     = 0 'False
        Italic         = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height         = 390
    Left           = 1800
    TabIndex       = 4
    Top            = 2280
    Width          = 3135
End
```

```

Begin VB.Frame Frame1
Caption      = "Student Information Please Fill-up the required fields **"
BeginProperty Font
    Name        = "Arial"
    Size        = 9.75
    Charset     = 0
    Weight      = 400
    Underline   = 0 'False
    Italic      = 0 'False
    Strikethrough = 0 'False
EndProperty
Height       = 975
Left         = 0
TabIndex     = 2
Top          = 0
Width        = 8895
Begin VB.Label Label1
Caption      = "Student Information"
BeginProperty Font
    Name        = "Arial"
    Size        = 14.25
    Charset     = 0
    Weight      = 400
    Underline   = 0 'False
    Italic      = 0 'False
    Strikethrough = 0 'False
EndProperty
Height       = 375
Left         = 3000
TabIndex     = 3
Top          = 480
Width        = 3015
End
End
Begin VB.TextBox Textlastname
Appearance   = 0 'Flat
BeginProperty Font
    Name        = "Arial"
    Size        = 12
    Charset     = 0
    Weight      = 400
    Underline   = 0 'False
    Italic      = 0 'False
    Strikethrough = 0 'False
EndProperty
Height       = 390
Left         = 1800

```

```

TabIndex      = 1
Top          = 1680
Width        = 3135
End
Begin VB.TextBox TextIDNUMBER
    Appearance = 0 'Flat
    BeginProperty Font
        Name      = "Arial"
        Size      = 12
        Charset   = 0
        Weight    = 400
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height     = 390
    Left       = 1800
    TabIndex   = 0
    Top        = 1080
    Width      = 2655
End
Begin Project1.jcbutton cmdNEW
    Height     = 495
    Left       = 1920
    TabIndex   = 26
    Top        = 7320
    Width      = 1455
    _ExtentX   = 2566
    _ExtentY   = 873
    ButtonStyle = 2
    BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
        Name      = "Arial Narrow"
        Size      = 9.75
        Charset   = 0
        Weight    = 400
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    BackColor   = 15199212
    Caption     = "SAVE"
    Picture     = "Formaddstudent.frx":33A4B
    UseMaskColor = -1 'True
    MaskColor   = 16777215
End
Begin Project1.jcbutton Addnew
    Height     = 495

```

```

Left      = 4920
TabIndex = 27
Top      = 7320
Width    = 1215
_ExtentX = 2143
_ExtentY = 873
ButtonStyle = 2
BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
  Name      = "Arial Narrow"
  Size      = 9.75
  Charset   = 0
  Weight    = 400
  Underline = 0 'False
  Italic    = 0 'False
  Strikethrough = 0 'False
EndProperty
BackColor = 15199212
Caption   = "CLEAR"
Picture   = "Formaddstudent.frx":341BE
UseMaskColor = -1 'True
MaskColor  = 1536
End
Begin Project1.jcbutton jbUpdate
  Cancel    = -1 'True
  Height    = 495
  Left      = 3480
  TabIndex  = 28
  Top       = 7320
  Width    = 1215
  _ExtentX = 2143
  _ExtentY = 873
  ButtonStyle = 2
  BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
    Name      = "Arial Narrow"
    Size      = 9.75
    Charset   = 0
    Weight    = 400
    Underline = 0 'False
    Italic    = 0 'False
    Strikethrough = 0 'False
  EndProperty
  BackColor = 15199212
  Caption   = "UPDATE"
  Picture   = "Formaddstudent.frx":343A8
  UseMaskColor = -1 'True
  MaskColor  = 15134975
End

```

```
Begin VB.Label Label13
    BackStyle     = 0 'Transparent
    Caption       = "Year Level :"
    BeginProperty Font
        Name          = "Arial"
        Size           = 11.25
        Charset        = 0
        Weight         = 400
        Underline      = 0 'False
        Italic         = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height        = 255
    Left          = 120
    TabIndex      = 23
    Top           = 6840
    Width         = 1695
End
Begin VB.Label Label12
    BackStyle     = 0 'Transparent
    Caption       = "Course :"
    BeginProperty Font
        Name          = "Arial"
        Size           = 11.25
        Charset        = 0
        Weight         = 400
        Underline      = 0 'False
        Italic         = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height        = 255
    Left          = 240
    TabIndex      = 22
    Top           = 6240
    Width         = 1695
End
Begin VB.Label Label11
    BackStyle     = 0 'Transparent
    Caption       = "College :"
    BeginProperty Font
        Name          = "Arial"
        Size           = 11.25
        Charset        = 0
        Weight         = 400
        Underline      = 0 'False
        Italic         = 0 'False
        Strikethrough = 0 'False
    EndProperty

```

```
EndProperty
Height      = 255
Left       = 240
TabIndex   = 20
Top        = 5760
Width      = 1695
End
Begin VB.Label Label10
    BackStyle   = 0 'Transparent
    Caption     = "Address :"
    BeginProperty Font
        Name      = "Arial"
        Size      = 11.25
        Charset   = 0
        Weight    = 400
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height      = 255
    Left       = 240
   TabIndex   = 18
    Top        = 5040
    Width      = 1695
End
Begin VB.Label Label9
    BackStyle   = 0 'Transparent
    Caption     = "Phone :"
    BeginProperty Font
        Name      = "Arial"
        Size      = 11.25
        Charset   = 0
        Weight    = 400
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height      = 255
    Left       = 240
   TabIndex   = 16
    Top        = 4440
    Width      = 1695
End
Begin VB.Label Label8
    BackStyle   = 0 'Transparent
    Caption     = "Email :"
    BeginProperty Font
```

```

Name      = "Arial"
Size      = 11.25
Charset   = 0
Weight    = 400
Underline = 0 'False
Italic    = 0 'False
Strikethrough = 0 'False
EndProperty
Height    = 255
Left      = 240
TabIndex = 14
Top       = 3960
Width     = 1695
End
Begin VB.Label Label7
  BackStyle = 0 'Transparent
  Caption   = "Sex :"
  BeginProperty Font
    Name      = "Arial"
    Size      = 11.25
    Charset   = 0
    Weight    = 400
    Underline = 0 'False
    Italic    = 0 'False
    Strikethrough = 0 'False
  EndProperty
  Height    = 255
  Left      = 3720
  TabIndex  = 12
  Top       = 3480
  Width     = 1695
End
Begin VB.Label Label6
  BackStyle = 0 'Transparent
  Caption   = "Date of Birth :"
  BeginProperty Font
    Name      = "Arial"
    Size      = 11.25
    Charset   = 0
    Weight    = 400
    Underline = 0 'False
    Italic    = 0 'False
    Strikethrough = 0 'False
  EndProperty
  Height    = 255
  Left      = 240
  TabIndex  = 10

```

```
Top      = 3480
Width    = 1695
End
Begin VB.Label Label5
BackStyle = 0 'Transparent
Caption   = "Middle Name :"
BeginProperty Font
Name      = "Arial"
Size      = 11.25
Charset   = 0
Weight    = 400
Underline = 0 'False
Italic    = 0 'False
Strikethrough = 0 'False
EndProperty
Height    = 255
Left      = 240
TabIndex  = 9
Top       = 2880
Width     = 1695
End
Begin VB.Label Label4
BackStyle = 0 'Transparent
Caption   = "Firstname :"
BeginProperty Font
Name      = "Arial"
Size      = 11.25
Charset   = 0
Weight    = 400
Underline = 0 'False
Italic    = 0 'False
Strikethrough = 0 'False
EndProperty
Height    = 255
Left      = 240
TabIndex  = 8
Top       = 2400
Width     = 1695
End
Begin VB.Label Label3
BackStyle = 0 'Transparent
Caption   = "Lastname :"
BeginProperty Font
Name      = "Arial"
Size      = 11.25
Charset   = 0
Weight    = 400
```

```

Underline      = 0 'False
Italic        = 0 'False
Strikethrough = 0 'False
EndProperty
Height        = 255
Left          = 240
TabIndex      = 7
Top           = 1680
Width         = 1695
End
Begin VB.Label Label2
    BackStyle     = 0 'Transparent
    Caption       = "ID Number :"
    BeginProperty Font
        Name          = "Arial"
        Size          = 11.25
        Charset       = 0
        Weight        = 400
        Underline     = 0 'False
        Italic        = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height        = 255
    Left          = 240
    TabIndex      = 6
    Top           = 1080
    Width         = 1695
End
End
Attribute VB_Name = "Formaddstudent"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PreDeclaredId = True
Attribute VB_Exposed = False
Private Function check() As Boolean
'declaring variable
    Dim status As Boolean
    status = False
    If TextIDNUMBER.Text = "" Then
        MsgBox ("Please enter the ID No."), vbInformation, "Information required"
    ElseIf Textlastname.Text = "" Then
        MsgBox ("Please enter the Lastname."), vbInformation, "Information required"
    ElseIf Textfirstname.Text = "" Then
        MsgBox ("Please enter the First first name."), vbInformation, "Information required"
    ElseIf Textmiddlename.Text = "" Then

```

```

    MsgBox ("Please enter the Mi."), vblInformation, "Information required"
ElseIf Combosex.Text = "" Then
    MsgBox ("Please enter the Sex."), vblInformation, "Information required"
        MsgBox ("Please enter the Sex."), vblInformation, "Information required"
ElseIf Textemail.Text = "" Then
    MsgBox ("Please enter the Email."), vblInformation, "Information required"
ElseIf TextPhone.Text = "" Then
    MsgBox ("Please enter the Phone."), vblInformation, "Information required"
ElseIf Textaddress.Text = "" Then
    MsgBox ("Please enter the Address."), vblInformation, "Information required"
ElseIf ComboCollege.Text = "" Then
    MsgBox ("Please enter the College."), vblInformation, "Information required"
ElseIf CombCourse.Text = "" Then
    MsgBox ("Please enter the Course."), vblInformation, "Information required"
ElseIf Comboyear.Text = "" Then
    MsgBox ("Please enter the Yearlevel."), vblInformation, "Information required"
Else
    status = True
End If
check = status
End Function
Private Sub Addnew_Click()
Call clear
End Sub
Private Sub cmdNEw_Click()
Me.TextIDNUMBER.Text = UCASE(TextIDNUMBER)
    Me.Textlastname.Text = UCASE(Textlastname)
    Me.Textfirstname.Text = UCASE(Textfirstname)
    Me.TextMiddlename.Text = UCASE(TextMiddlename)
    Me.Combosex.Text = UCASE(Combosex)
    Me.Textemail.Text = UCASE(Textemail)
    Me.TextPhone.Text = UCASE(TextPhone)
    Me.Textaddress.Text = UCASE(Textaddress)
    Me.ComboCollege.Text = UCASE(ComboCollege)
    Me.CombCourse.Text = UCASE(CombCourse)
    Me.Comboyear.Text = UCASE(Comboyear)
If ConnectMySQL_Server() = True Then
    If check = True Then
        If MsgBox("Do you want to Save this?", vbYesNo + vbQuestion, "Saving") = vbYes Then
            If MySqlConnect_Recordset("select * from students where STUDID =" & TextIDNUMBER.Text & "") Then
                With DataRec
                    '.MoveLast
                    If Not .EOF Then

```

```

'Edit
Else
.Addnew
End If
!STUDID = TextIDNUMBER.Text
!Lastname = Textlastname.Text
!Firstname = Textfirstname.Text
!Middlename = TextMiddlename.Text
!Dateofbirth = DTPicker1.Value
!Sex = Combosex.Text
!Email = Textemail.Text
!Phone = TextPhone.Text
!Address = Textaddress.Text
!College = ComboCollege.Text
!Course = CombCourse.Text
!Yearlevel = Comboyear.Text
.Update
End With
MsgBox " ID No " & TextID & " has been Saved.", vbInformation, "JRMSU"
End If
End If
Call clear
End If
'load_students
End If
End Sub
Sub clear()
Textlastname.Text = ""
Textfirstname.Text = ""
TextMiddlename.Text = ""
Combosex.Text = ""
Textemail.Text = ""
TextPhone.Text = ""
Textaddress.Text = ""

ComboCollege.Text = ""
CombCourse.Text = ""
Comboyear.Text = ""
End Sub
Private Sub jbUpdate_Click()
If check = True Then
If Connect MySql_Server() = True Then
If MsgBox("Do you want to Update this Record?", vbYesNo + vbQuestion,
"Saving") = vbYes Then
If MySqlConnect_Recordset("select * from students where STUDID =" &
TextIDNUMBER.Text & "") Then
With DataRec
'.MoveLast

```

```

If Not .EOF Then
    'Edit
    Else
        .Addnew
    End If
    !STUDID = TextIDNUMBER.Text
    !Lastname = Textlastname.Text
    !Firstname = Textfirstname.Text
    !Middlename = TextMiddlename.Text
    !Dateofbirth = DTPicker1.Value
    !Sex = Combosex.Text
    !Email = Textemail.Text
    !Phone = TextPhone.Text
    !Address = Textaddress.Text
    !College = ComboCollege.Text
    !Course = CombCourse.Text
    !Yearlevel = Comboyear.Text
    .Update
End With
End If
MsgBox "Record Saved.", vbInformation, "JRMSU System"
End If
End If
Call clear
Unload Me
End If
Formstudentsmanagement.Show
End Sub

```

---

```

VERSION 5.00
Object      =      "{5E9E78A0-531B-11CF-91F6-C2863C385E30}#1.0#0";
"MSFLXGRD.OCX"
Begin VB.Form FormCheckAttendance
Caption      =      "MONITORING OF ATTENDANCE"
ClientHeight  =      10950
ClientLeft    =      120
ClientTop     =      450
ClientWidth   =      14430
LinkTopic     =      "Form1"
Picture       =      "FormCheckAttendance.frx":0000
ScaleHeight   =      10950
ScaleWidth    =      14430
StartUpPosition = 2 'CenterScreen
Begin VB.TextBox Text2
Height       =      285
Left         =      120
TabIndex     =      29

```

```
Text      = "Text2"
Top       = 3840
Visible   = 0 'False
Width     = 975
End
Begin VB.Frame Frame2
    BorderStyle = 0 'None
    Caption     = "Frame2"
    Height      = 6615
    Left        = 0
    TabIndex    = 16
    Top         = 4320
    Width       = 14295
Begin Project1.jcbutton jcbutton3
    Height     = 855
    Left        = 5160
    TabIndex    = 26
    Top         = 4680
    Width       = 3015
    _ExtentX   = 5318
    _ExtentY   = 1508
    ButtonStyle = 7
    BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
        Name      = "Tahoma"
        Size      = 15.75
        Charset   = 0
        Weight    = 700
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    BackColor   = 16765357
    Caption     = "CLOSE"
    UseMaskColor = -1 'True
End
Begin VB.TextBox Text4
    Height     = 285
    Left        = 8280
    TabIndex    = 22
    Top         = 720
    Visible    = 0 'False
    Width       = 2055
End
Begin Project1.jcbutton jcbutton2
    Height     = 975
    Left        = 1800
    TabIndex    = 19
```

```

Top      = 3480
Width    = 4335
_ExtentX = 7646
_ExtentY = 1720
ButtonStyle = 7
BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
  Name      = "Arial"
  Size      = 18
  Charset   = 0
  Weight    = 400
  Underline = 0 'False
  Italic    = 0 'False
  Strikethrough = 0 'False
EndProperty
BackColor = 16765357
Caption   = "VIEW RECORDED FINES"
UseMaskColor = -1 'True
End
Begin VB.TextBox Text5
  Appearance = 0 'Flat
  BackColor  = &H0080FFFF&
  BorderStyle = 0 'None
  BeginProperty Font
    Name      = "Arial"
    Size      = 36
    Charset   = 0
    Weight    = 700
    Underline = 0 'False
    Italic    = 0 'False
    Strikethrough = 0 'False
  EndProperty
  ForeColor = &H000000FF&
  Height    = 855
  Left      = 8160
  TabIndex  = 18
  Top       = 1680
  Width     = 3255
End
Begin Project1.jcbutton jcbutton4
  Height    = 975
  Left      = 6840
  TabIndex  = 27
  Top       = 3480
  Width     = 4335
  _ExtentX = 7646
  _ExtentY = 1720
  ButtonStyle = 7

```

```
BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
  Name      = "Arial"
  Size      = 18
  Charset   = 0
  Weight    = 400
  Underline = 0 'False
  Italic    = 0 'False
  Strikethrough = 0 'False
EndProperty
BackColor   = 16765357
Caption     = "PAYMENT"
UseMaskColor = -1 'True
End
Begin VB.Label Label14
  Caption     = "Status:"
  BeginProperty Font
    Name      = "Arial"
    Size      = 26.25
    Charset   = 0
    Weight    = 700
    Underline = 0 'False
    Italic    = 0 'False
    Strikethrough = 0 'False
  EndProperty
  ForeColor   = &H000000FF&
  Height     = 495
  Left        = 8160
  TabIndex    = 31
  Top         = 2640
  Visible    = 0 'False
  Width       = 4575
End
Begin VB.Label Label13
  Caption     = "Status:"
  BeginProperty Font
    Name      = "Arial"
    Size      = 26.25
    Charset   = 0
    Weight    = 700
    Underline = 0 'False
    Italic    = 0 'False
    Strikethrough = 0 'False
  EndProperty
  ForeColor   = &H00400000&
  Height     = 495
  Left        = 6240
  TabIndex    = 30
End
```

```
Top      = 2640
Visible  = 0 'False
Width    = 4575
End
Begin VB.Label Label12
    Caption    = "Label10"
    BeginProperty Font
        Name      = "Arial"
        Size      = 26.25
        Charset   = 0
        Weight    = 700
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    ForeColor  = &H00400000&
    Height     = 495
    Left       = 10680
    TabIndex   = 25
    Top        = 600
    Visible    = 0 'False
    Width      = 4575
End
Begin VB.Label Label10
    Caption    = "Label10"
    BeginProperty Font
        Name      = "Arial"
        Size      = 26.25
        Charset   = 0
        Weight    = 700
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    ForeColor  = &H00400000&
    Height     = 615
    Left       = 2160
    TabIndex   = 23
    Top        = 600
    Visible    = 0 'False
    Width      = 6615
End
Begin VB.Label Label8
    BackStyle  = 0 'Transparent
    Caption    = "Course:"
    BeginProperty Font
        Name      = "Arial"
```

```

Size      = 15.75
Charset   = 0
Weight    = 400
Underline = 0 'False
Italic    = 0 'False
Strikethrough = 0 'False
EndProperty
Height    = 375
Left      = 10680
TabIndex  = 21
Top       = 240
Visible   = 0 'False
Width     = 1575
End
Begin VB.Label Label7
  BackStyle = 0 'Transparent
  Caption   = "Name:"
  BeginProperty Font
    Name      = "Arial"
    Size      = 15.75
    Charset   = 0
    Weight    = 400
    Underline = 0 'False
    Italic    = 0 'False
    Strikethrough = 0 'False
  EndProperty
  ForeColor = &H00000000&
  Height    = 375
  Left      = 2280
  TabIndex  = 20
  Top       = 240
  Visible   = 0 'False
  Width     = 1575
End
Begin VB.Label Label6
  BackStyle = 0 'Transparent
  Caption   = "TOTAL FINES:"
  BeginProperty Font
    Name      = "Arial"
    Size      = 36
    Charset   = 0
    Weight    = 700
    Underline = 0 'False
    Italic    = 0 'False
    Strikethrough = 0 'False
  EndProperty
  ForeColor = &H00000000&

```

```
Height      = 735
Left       = 2760
TabIndex   = 17
Top        = 1680
Width      = 7455
End
End
Begin VB.TextBox Text8
Height      = 495
Left       = 6240
TabIndex   = 15
Text        = "Text8"
Top        = 6120
Visible    = 0 'False
Width      = 2895
End
Begin VB.TextBox Text7
Height      = 285
Left       = 6600
TabIndex   = 14
Text        = "Text7"
Top        = 8040
Visible    = 0 'False
Width      = 1455
End
Begin VB.TextBox Text6
Height      = 495
Left       = 6360
TabIndex   = 13
Text        = "Text6"
Top        = 10320
Visible    = 0 'False
Width      = 2655
End
Begin Project1.jcbutton jcbutton1
Height      = 615
Left       = 5640
TabIndex   = 9
Top        = 2760
Width      = 1215
_ExtentX   = 2143
_ExtentY   = 1085
ButtonStyle = 7
BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
Name        = "Tahoma"
Size        = 8.25
Charset     = 0
```

```
Weight      = 400
Underline   = 0 'False
Italic     = 0 'False
Strikethrough = 0 'False
EndProperty
BackColor   = 16765357
Caption     = "CHECK"
UseMaskColor = -1 'True
End
Begin VB.TextBox Text1
Appearance  = 0 'Flat
BackColor   = &H00C0FFFF&
BeginProperty Font
Name        = "Arial"
Size        = 36
Charset     = 0
Weight      = 400
Underline   = 0 'False
Italic     = 0 'False
Strikethrough = 0 'False
EndProperty
Height      = 1935
Left        = 2280
TabIndex    = 8
Top         = 2160
Width       = 2895
End
Begin VB.Frame Frame1
Height      = 1935
Left        = 1800
TabIndex    = 0
Top         = 0
Width       = 10935
Begin VB.TextBox TextSy
Appearance  = 0 'Flat
Enabled     = 0 'False
BeginProperty Font
Name        = "Arial"
Size        = 12
Charset     = 0
Weight      = 400
Underline   = 0 'False
Italic     = 0 'False
Strikethrough = 0 'False
EndProperty
Height      = 495
Left        = 5520
```

```
TabIndex      = 2
Top          = 1320
Width        = 2415
End
Begin VB.TextBox TextSemester
    Appearance = 0 'Flat
    Enabled    = 0 'False
    BeginProperty Font
        Name      = "Arial"
        Size      = 12
        Charset   = 0
        Weight    = 400
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height     = 495
    Left       = 2640
    TabIndex   = 1
    Top        = 1320
    Width      = 2055
End
Begin VB.Label Label3
    Caption    = "ATTENDANCE MONITORING"
    BeginProperty Font
        Name      = "Arial"
        Size      = 21.75
        Charset   = 0
        Weight    = 400
        Underline = 0 'False
        Italic    = 0 'False
        Strikethrough = 0 'False
    EndProperty
    Height     = 495
    Left       = 1800
    TabIndex   = 5
    Top        = 360
    Width      = 7575
End
Begin VB.Label Label2
    Caption    = "SY:"
    BeginProperty Font
        Name      = "Arial"
        Size      = 12
        Charset   = 0
        Weight    = 400
        Underline = 0 'False
    EndProperty

```

```

Italic      = 0 'False
Strikethrough = 0 'False
EndProperty
Height      = 375
Left        = 4920
TabIndex    = 4
Top         = 1440
Width       = 1215
End
Begin VB.Label Label1
Caption     = "SEMESTER"
BeginProperty Font
Name        = "Arial"
Size        = 12
Charset     = 0
Weight      = 400
Underline   = 0 'False
Italic      = 0 'False
Strikethrough = 0 'False
EndProperty
Height      = 375
Left        = 960
TabIndex    = 3
Top         = 1440
Width       = 1455
End
End
Begin MSFlexGridLib.MSFlexGrid bir1
Height      = 1215
Left        = 1560
TabIndex    = 6
Top         = 6720
Visible     = 0 'False
Width       = 11295
_ExtentX    = 19923
_ExtentY    = 2143
_Version    = 393216
FixedCols   = 0
BackColorBkg = 16777215
Appearance  = 0
BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
Name        = "Arial"
Size        = 9.75
Charset     = 0
Weight      = 400
Underline   = 0 'False
Italic      = 0 'False

```

```

    Strikethrough = 0 'False
EndProperty
End
Begin MSFlexGridLib.MSFlexGrid bir2
Height      = 1575
Left       = 1440
TabIndex    = 11
Top        = 8520
Visible     = 0 'False
Width       = 11535
_ExtentX    = 20346
_ExtentY    = 2778
_Version    = 393216
FixedCols   = 0
BackColorBkg = 16777215
Appearance  = 0
BeginProperty Font {0BE35203-8F91-11CE-9DE3-00AA004BB851}
Name        = "Arial"
Size        = 9.75
Charset     = 0
Weight       = 400
Underline    = 0 'False
Italic      = 0 'False
Strikethrough = 0 'False
EndProperty
End
Begin VB.Label lblDate
Caption     = "Label13"
Height      = 255
Left        = 360
TabIndex    = 28
Top         = 960
Visible     = 0 'False
Width       = 1215
End
Begin VB.Label Label11
Caption     = "Label10"
BeginProperty Font
Name        = "Arial"
Size        = 26.25
Charset     = 0
Weight       = 700
Underline    = 0 'False
Italic      = 0 'False
Strikethrough = 0 'False
EndProperty
Height      = 495

```

```

Left      = 4200
TabIndex = 24
Top      = 4560
Width    = 4575
End
Begin VB.Label Label9
Caption   = "Label5"
Height    = 375
Left      = 12000
TabIndex  = 12
Top       = 10200
Visible   = 0 'False
Width     = 1335
End
Begin VB.Label Label5
Caption   = "Label5"
Height    = 375
Left      = 11880
TabIndex  = 10
Top       = 8040
Visible   = 0 'False
Width     = 1335
End
Begin VB.Label Label4
BackStyle = 0 'Transparent
Caption   = "ID NO"
BeginProperty Font
Name      = "Arial"
Size      = 12
Charset   = 0
Weight    = 400
Underline = 0 'False
Italic    = 0 'False
Strikethrough = 0 'False
EndProperty
Height    = 855
Left      = 1080
TabIndex  = 7
Top       = 2400
Width     = 1575
End
End
Attribute VB_Name = "FormCheckAttendance"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False

```

```
Dim ListviewFocus As Boolean
Public QtyRemain As Integer
Public paid As BooleanPrivate Sub Form_Load()
Grid_Design
Grid_Design2
lblDate.Caption = Format(Now, "YYYY/MM/DD")
atuo
End Sub
Sub Grid_Design()
With bir1
.clear
.Cols = 7
.Rows = 2
.Row = 0
'.Col = 0: .ColWidth(0) = 1000
'.Text = " NO."
.Col = 0: .ColWidth(0) = 1500
.Text = "ACTIVITYCODE"
.Col = 1: .ColWidth(1) = 3000
.Text = "ACTIVITY NAME"
.Col = 2: .ColWidth(2) = 1500
.Text = "ACTIVITY DATE"
.Col = 3: .ColWidth(3) = 1300
.Text = "AM IN"
.Col = 4: .ColWidth(4) = 1000
.Text = "AM OUT"
.Col = 5: .ColWidth(5) = 1200
.Text = "REMARKS"
.Col = 6: .ColWidth(6) = 1000
.Text = "FINE"
End With
End Sub
Sub Grid_Design2()
With bir2
.clear
.Cols = 7
.Rows = 2
.Row = 0
'.Col = 0: .ColWidth(0) = 1000
'.Text = " NO."
.Col = 0: .ColWidth(0) = 1500
.Text = "ACTIVITYCODE"
.Col = 1: .ColWidth(1) = 3000
.Text = "ACTIVITY NAME"
.Col = 2: .ColWidth(2) = 1500
.Text = "ACTIVITY DATE"
.Col = 3: .ColWidth(3) = 1300
```

```

.Text = "AM IN"
    .Col = 4: .ColWidth(4) = 1000
.Text = "AM OUT"
    .Col = 5: .ColWidth(5) = 1200
.Text = "REMARKS"
    .Col = 6: .ColWidth(6) = 1000
    .Text = "FINE"
End With
End SubSub AdvanceSearch1()Dim c As Integer
On Error Resume Next
amt = 0
If Connect MySql_Server = True Then If MySqlConnect_Recordset("select * from
students where STUDID = '" & Text1.Text & "') = True Then
    If Not DataRec.EOF Then
        Do While Not DataRec.EOF
            Text4.Text = DataRec!STUDID
            Label10.Caption = DataRec!Lastname + "," + DataRec!firstname + "," +
DataRec!Middlename
            Label12.Caption = DataRec!Course
        Exit Do
    Loop
Else
    MsgBox "Record not Found!!! ", vbInformation

End If
Label7.Visible = True
Label10.Visible = True
Label8.Visible = True
Label12.Visible = True
Label13.Visible = False
Label14.Visible = False
End If
'checklog
End If
    ' If MySqlConnect_Recordset("SELECT * from Activity where
Semester ='" & CmbSemester.Text & "' and Sy like'" & TextSy.Text & "') Then
If Connect MySql_Server() = True Then
    'If MySqlConnect_Recordset("Select * from libuserslog where DDATE =
" & lbdDate.Caption & "") = True Then
        If MySqlConnect_Recordset("select tbl3.* , "
        & " case when tbl3.out_remarks='Absent' then (select
a.fine_Amount from Activity as a where a.activitycode=tbl3.activitycode) Else
'0' end As Fine " _
        & " from (select
act.activitycode,act.activityname,act.ActivityDate,tbl2.semester,

```

```

tbl2.sy,tbl2.studid,tbl2.in_am,      case      when tbl2.in_am<>0 then 'Present'
Else 'Absent'      end as Am_Remarks,      tbl2.out_am,  case      when
tbl2.out_am<>0 then 'Present'
Else 'Absent'  end as out_Remarks, tbl2.fine_Amount " "
& " from activity as act left outer join (  select  tbl1.activitycode,
tbl1.activityname,  tbl1.ActivityDate,  tbl1.semester,  tbl1.studid,  tbl1.sy,
tbl1.in_am,  tbl1.out_am,  tbl1.fine_Amount " "
&                      "from          (select
a.activitycode,a.activityname,a.ActivityDate,a.semester,a.sy,l.studid,l.in_am,l.out
_am,a.fine_amount  from  activity  as  a  left  join  logs  as  l  on
a.activitycode=l.activitycode )  as  tbl1  where  tbl1.studid="" & Text1.Text & ""
and  tbl1.semester ="" & TextSemester.Text & "" and  tbl1.sy="" & TextSy.Text & ""
)  as  tbl2 "
& "on act.activitycode=tbl2.activitycode) as tbl3") Then
If Not DataRec.EOF Then
Do
c = c + 1

amt = amt + DataRec!FINE
bir1.TextMatrix(c, 0) = DataRec!ActivityCode
bir1.TextMatrix(c, 1) = DataRec!ActivityName
bir1.TextMatrix(c, 2) = DataRec!ActivityDate
bir1.TextMatrix(c, 3) = DataRec!IN_AM
bir1.TextMatrix(c, 4) = DataRec!OUT_AM
bir1.TextMatrix(c, 5) = DataRec!out_remarks
bir1.TextMatrix(c, 6) = DataRec!FINE
Label5.Caption = "" & Format(Right(amt, 4), "0.00")
Text7.Text = Label5.Caption
DataRec.MoveNext
bir1.Rows = bir1.Rows + 1
Loop While c < DataRec.RecordCount
Else
MsgBox " Record Not Found", vbInformation, ""
bir1.clear
'bir1.FormatString = "           NAME
|   SEMESTER |       SY   "
|           DATE
'bir1.Rows = 2
End If
End If
End If
jbutton2.Enabled = True
End Sub
Sub viewrecordedfine()
Dim c As Integer
On Error Resume Next
amt = 0

```

```

If Connect MySql_Server = True Then If MySqlConnect_Recordset("select * from
students where STUDID = " & Text1.Text & "") = True Then

    If Not DataRec.EOF Then
        Do While Not DataRec.EOF
            Text4.Text = DataRec!STUDID
            Label10.Caption = DataRec!Lastname + "," + DataRec!firstname + "," +
DataRec!Middlename
            Label12.Caption = DataRec!Course
            Exit Do
        Loop
    Else
        MsgBox "Record not Found!!! ", vbInformation
    End If
    Label7.Visible = True
    Label10.Visible = True
    Label8.Visible = True
    Label12.Visible = True
End If
'checklog
End If
    ' If MySqlConnect_Recordset("SELECT * from Activity where
Semester ="" & CmbSemester.Text & "" and Sy like"" & TextSy.Text & "") Then
If Connect MySql_Server() = True Then
    'If MySqlConnect_Recordset("Select * from libuserslog where DDATE =
"" & lblDate.Caption & "") = True Then
        If MySqlConnect_Recordset("select tbl3.* , "
        & " case      when tbl3.out_remarks='Absent' then (select
a.fine_Amount from Activity as a where a.activitycode=tbl3.activitycode)   Else
'0' end As Fine "
        & "                   from                  (select
act.activitycode,act.activityname,act.ActivityDate,tbl2.semester,
tbl2.sy,tbl2.studid,tbl2.in_am,   case      when tbl2.in_am<>0 then 'Present'
Else 'Absent'   end as Am_Remarks,   tbl2.out_am, case      when
tbl2.out_am<>0 then 'Present'       Else 'Absent'   end as out_Remarks,
tbl2.fine_Amount "
        & " from activity as act left outer join (   select   tbl1.activitycode,
tbl1.activityname,  tbl1.ActivityDate,   tbl1.semester,   tbl1.studid,   tbl1.sy,
tbl1.in_am,  tbl1.out_am,  tbl1.fine_Amount "
        & "from                  (select
a.activitycode,a.activityname,a.ActivityDate,a.semester,a.sy,l.studid,l.in_am,l.out
_am,a.fine_amount from activity as a left join logs as l on
a.activitycode=l.activitycode ) as tbl1 where tbl1.studid="" & Text1.Text & ""
and
tbl1.semester ="" & TextSemester.Text & "" and tbl1.sy="" & TextSy.Text & ""
) as
tbl2 "
        & "on act.activitycode=tbl2.activitycode) as tbl3") Then

```

```

    If Not DataRec.EOF Then
        Do
            c = c + 1
            amt = amt + DataRec!FINE
                bir1.TextMatrix(c, 0) = DataRec!ActivityCode
                bir1.TextMatrix(c, 1) = DataRec!ActivityName
                bir1.TextMatrix(c, 2) = DataRec!ActivityDate
                    bir1.TextMatrix(c, 3) = DataRec!IN_AM
                    bir1.TextMatrix(c, 4) = DataRec!OUT_AM
                    bir1.TextMatrix(c, 5) = DataRec!out_remarks
                    bir1.TextMatrix(c, 6) = DataRec!FINE
            Label5.Caption = "" & Format(Right(amt, 4), "0.00")
            Text7.Text = Label5.Caption
            DataRec.MoveNext
                bir1.Rows = bir1.Rows + 1
            Loop While c < DataRec.RecordCount
        Else
            MsgBox " Record Not Found", vbInformation, ""
            bir1.clear
        'bir1.FormatString = " NAME | DATE
        '| SEMESTER | SY "
        'bir1.Rows = 2
        End If
        End If
        End If
    End Sub
    End Sub
    Sub AdvanceSearch2()Dim c, d As Integer
On Error Resume Next
    amt = 0
    amt1 = 0
    If Connect MySql_Server = True ThenIf MySqlConnect_Recordset("select * from
students where STUDID = " & Text1.Text & "") = True Then
        If Not DataRec.EOF Then
            Do While Not DataRec.EOF
                Text4.Text = DataRec!STUDID
                Label10.Caption = DataRec!Lastname + "," + DataRec!firstname + "," +
DataRec!Middlename
                Label12.Caption = DataRec!Course
            Exit Do
        Loop
    Else
        MsgBox "Record not Found!!! ", vbInformation
    End If
End If
'checklog
End If

```

```

' If MySqlConnect_Recordset("SELECT * from Activity where Semester ='" &
CmbSemester.Text & "' and Sy like'" & TextSy.Text & "') Then
If ConnectMySql_Server() = True Then
    'If MySqlConnect_Recordset("Select * from libuserslog where DDATE =
"" & lbdDate.Caption & "") = True Then
        If MySqlConnect_Recordset("select tbl3.* , "
            & " case      when  tbl3.out_remarks='Absent' then (select
a.fine_Amount from Activity as a where a.activitycode=tbl3.activitycode) Else
'0' end As Fine " _
            & "           from          (select
act.activitycode,act.activityname,act.ActivityDate,tbl2.semester,
tbl2.sy,tbl2.studid,tbl2.in_pm,   case      when  tbl2.in_pm<>0 then 'Present'
Else 'Absent'      end as Am_Remarks,     tbl2.out_pm, case      when
tbl2.out_pm<>0 then 'Present'      Else 'Absent'      end as out_Remarks,
tbl2.fine_Amount " _
            & " from activity as act left outer join (  select  tbl1.activitycode,
tbl1.activityname,  tbl1.ActivityDate,  tbl1.semester,  tbl1.studid,  tbl1.sy,
tbl1.in_pm,  tbl1.out_pm,  tbl1.fine_Amount " _
            & "           from          (select
a.activitycode,a.activityname,a.ActivityDate,a.semester,a.sy,l.studid,l.in_pm,l.out
_pm,a.fine_amount from activity as a left  join logs_afternoon as l on
a.activitycode=l.activitycode ) as tbl1 where  tbl1.studid="" & Text1.Text & "" and
tbl1.semester ="" & TextSemester.Text & "" and  tbl1.sy="" & TextSy.Text & "" ) as
tbl2 " _
            & " on act.activitycode=  tbl2.activitycode) as  tbl3") Then
        If Not DataRec.EOF Then
            Do
                d = d + 1
                amt1 = amt1 + DataRec!FINE
                bir1.TextMatrix(d, 0) = DataRec!ActivityCode
                bir2.TextMatrix(d, 1) = DataRec!ActivityName
                bir2.TextMatrix(d, 2) = DataRec!ActivityDate
                bir2.TextMatrix(d, 3) = DataRec!IN_AM
                bir2.TextMatrix(d, 4) = DataRec!OUT_AM
                bir2.TextMatrix(d, 5) = DataRec!out_remarks
                bir2.TextMatrix(d, 6) = DataRec!FINE
                Label9.Caption = "" & Format(Right(amt1, 4), "0.00")
                Text6.Text = Label9.Caption
                DataRec.MoveNext
                bir2.Rows = bir2.Rows + 1
            Loop While d < DataRec.RecordCount
        Else
            MsgBox " Record Not Found", vbInformation, ""
            bir2.clear
            'bir1.FormatString = " NAME
| SEMESTER | SY | DATE

```

```

'bir1.Rows = 2
End If
End If
total
End If
End SubPrivate Sub jbutton1_Click()
AdvanceSearch1
AdvanceSearch2
SearchDatabase1
End Sub
Sub SearchDatabase1()
'txtOrderNo.Text = Generate_OrderNumber
On Error Resume Next
Dim Cnt As Integer  If ConnectMySQL_Server() = True Then
    If MySqlConnect_Recordset("SELECT * FROM student_fines where
STUDID="" & Text1.Text & "" and Semester="" & TextSemester.Text & "") = True
Then
    If DataRec.RecordCount > 0 Then
        If DataRec!status = "Paid" Or DataRec!status = "Excuse" Then
            ' MsgBox "This Purchase Order No: and the Supplier is already exist.Pls
Select another PR NO: ", vblInformation
Text5.Text = "0.00"
jbutton2.Enabled = False
Label13.Visible = True
Label14.Visible = True
Label14.Caption = DataRec!status
Exit Sub
bflage = False
Else
bflage = True
End If
Else
bflage = True
End If
With DataRec
If Not .EOF Then
    Do While Not .EOF
        'Text3.Text = !status
        .MoveNext
    Loop
Else
    'MsgBox "Product is not found!", vbExclamation, "Searching in
Database"
End If
End With
End If
End If

```

```

End Sub
Sub Search() End Sub
Sub total()
Text8.Text = Val(Text7.Text) + Val(Text6.Text)
Text5.Text = "" & Format(Right(Text8, 4), "0.00")
End Sub
Private Sub jcbutton2_Click()
Formview_record.TextCOde.Text = Text4.Text
Formview_record.Labelcourse.Caption = Label12.Caption
Formview_record.Labelname.Caption = Label10.Caption
Formview_record.Text1.Text = TextSemester.Text
Formview_record.Text2.Text = TextSy.Text
    Formview_record.Show 1
End Sub
Private Sub jcbutton3_Click()
Unload Me
End Sub
Sub savesales1()
Dim count As Integer
If CheckFields = True Then
    Exit Sub
End If
If ConnectMySQL_Server() = True Then
    If MySQLConnect_Recordset("select * from Fine_transaction where Transaction_no = " & Text2.Text) Then
        If DataRec.RecordCount > 0 Then
            If Text1.Text = DataRec!STUDID Then
                'MsgBox "This Purchase order is all ready recieved", vbInformation
                Exit Sub
            bflage = False
            Else
            bflage = True
            End If
        Else
            bflage = True
        End If
        If bflage = True Then
            With DataRec
                If Not .EOF Then
                    Else
                    .Addnew
                End If
                !Transaction_no = Text2.Text
                !STUDID = Text1.Text
                !Payment = PaymentFrm.lbltotal.Caption
                !Semester = TextSemester.Text
                !Sy = TextSy.Text
                !Date_transaction = lblDate.Caption
                !status = "Paid"
                .Update
            End With
        End If
    End If
End If
End Sub

```

```

        End If
atuo
End If
save2
End If
End Sub
Sub atuo()
If Connect MySql_Server() = True Then
If MySqlConnect_Recordset("Select * from fine_transaction order by Transaction_no") = True Then
If Not DataRec.EOF Then
    DataRec.MoveLast
    'TextStudentID.Text = Format(DataRec!student_id + 1, "0000")
    Text2.Text = "" & Format(Right(DataRec!Transaction_no, 4) + 1, "0000")
Else
    Text2.Text = "0001"
End If
End If
End If
End SubPrivate Sub jcbutton4_Click()Dim CNo As Integer
If Val(Text5) <> 0 Then
CNo = Clnt(Text5.Text)
PaymentFrm.Show 1, Me
If paid = True Then
    savesales1
    'Timer2.Enabled = True
    txtTotal = "0.00"
    txtSubTotal = "0.00"
    txtTotal = "0.00"
    txtDiscount = "0.00"
    txtSearch = ""
    txtdesc1 = ""
    txtqty = ""
    Textprice = ""
    'clsPrint.PrintInvoice CNo
    'TextTotal_cost = clsSales.salesNo
    CNo = 0
End If
End If
Set clsPrint = Nothing
End SubPrivate Sub Text5_Change()
save
End Sub
Sub save()
Dim count As Integer'If IS_EMPTY(Me.Text1, True) = True Then Exit Sub      If
Connect MySql_Server() = True Then

```

```

'If MsgBox("Do you want to Save this?", vbYesNo + vbQuestion, "Saving") = vbYes Then
    If MySqlConnect_Recordset("select * from student_fines where STUDID ='" & Text1.Text & "' and Semester = '" & TextSemester.Text & "' and Sy ='" & TextSy.Text & "') Then
        ' " and canvas_sheet_master.Supplier_name =" & Combo1.Text & """
        If DataRec.RecordCount > 0 Then
            If Text1.Text = DataRec!STUDID And TextSemester.Text = DataRec!Semester And TextSy.Text = DataRec!Sy Then
                'MsgBox "Duplicate Record!: ", vblInformationExit Sub
                bflage = False
            Else
                bflage = True
            End If
        Else
            bflage = True
        End If
        With DataRec
            '.MoveLast
            If Not .EOF Then
                'Edit
                Else
                    .Addnew
                End If
                !STUDID = Text1.Text
                !Fines = Text5.Text
                !Semester = TextSemester.Text
                !Sy = TextSy.Text
                !Date_transaction = lblDate.Caption
                .Update
            ' MsgBox " Record is already Saved", vblInformation, "Record is already Saved"
            ' Call cmdNew_Click
            ' Call Command2_Click
            End With
        End If
        End If
    End If End Sub
Sub save2()
Dim count As Integer'If IS_EMPTY(Me.Text1, True) = True Then Exit Sub
    If ConnectMySql_Server() = True Then
        'If MsgBox("Do you want to Save this?", vbYesNo + vbQuestion, "Saving") = vbYes Then
            If MySqlConnect_Recordset("select * from student_fines where STUDID ='" & Text1.Text & "' and Semester = '" & TextSemester.Text & "' and Sy ='" & TextSy.Text & "') Then
                ' " and canvas_sheet_master.Supplier_name =" & Combo1.Text & """
                If DataRec.RecordCount > 0 Then

```

```

If Text1.Text = DataRec!STUDID And TextSemester.Text = DataRec!Semester
And TextSy.Text = DataRec!Sy And "Paid" = DataRec!status Then
    'MsgBox "Duplicate Record!", vbInformationExit Sub
    bflage = False
Else
    bflage = True
End If
Else
    bflage = True
End If
With DataRec
    '.MoveLast
        If Not .EOF Then
            'Edit
            Else
                .Addnew
            End If
        !STUDID = Text1.Text
        !Fines = Text5.Text
        !Semester = TextSemester.Text
        !Sy = TextSy.Text
        !Date_transaction = lblDate.Caption
        !status = "Paid"
        .Update
    ' MsgBox " Record is already Saved", vbInformation, "Record is already
Saved"
    ' Call cmdNew_Click
    'Call Command2_Click
    End With
    'End If
End If
End If
End Sub

```

## C. EVALUATION SHEET

Name of Evaluator/Rater: \_\_\_\_\_

Position /Job Description: \_\_\_\_\_

### **Direction:**

Please evaluate the developed Student School Activities Attendance System Through Biometric Technology and Supreme Student Government Fines Collection Management System software along the levels of functionality, reliability, usability, efficiency, maintainability, and accuracy. Description of each level is indicated below.

Functionality pertains to the sum or any aspect of what classroom surveillance system can do for a user. Indicate the functionality level of the system software by

putting a check () in the box below the number that fits your response. The numbers are coded as follows:

- 5- Very Much Functional
- 4- Much Functional
- 3- Functional
- 2- Fairly Functional

FUNCTIONALITY	5	4	3	2	1
1. Compliance of its user needs					
2. Compatibility to the other system					
3. Fitness of its intended use					
4. Protect all records inside the system					
5. Provide a useful, time-saving and acceptably accurate					
6. Solution to a specified task or program					
7. Minimization of its run-time error					
8. Speed in Data Processing					
9. Detection of error					
10. Intended use of the software					

Reliability refers to the ability of the Student School Activities Attendance System Through Biometric Technology and Supreme Student Government Fines Collection Management System to consistently perform its intended or required function or mission on demand and without degradation or failure. Indicate the reliability level of the system software by putting a check () in the box below the number that fits your numbers are coded as follows:

- 5- Very Much Reliable
- 4- Much Reliable
- 3 Reliable
- 2- Fairly Reliable
- 1-Not Reliable

RELIABILITY	5	4	3	2	1
11. Exactness of Information divided within the program					
12. Back-up files that created by the system					
13. Process performed by the system					
14. Stability of the system					
15. Error tolerance					
16. Ease in data recovery					
17. Accuracy of data capture					
18. Accuracy of Results					
19. Understand ability of output					
20. Completeness of the system					

Usability pertains to the user's total satisfaction received from using the proposed Student School Activities Attendance System Through Biometric Technology and Supreme Student Government Fines Collection Management System. To determine also the usability level of the system software, put a check () in the box below the number that fits your response. The numbers are coded as follows:

- 5- Very Much Usable
- 4- Much Usable
- 3- Usable
- 2- Fairly Usable
- 1-Not Usable

USABILITY	5	4	3	2	1
21. User friendly program					
22. Quick driven program					
23. Simple manipulation features					
24. Wrong key input errors detection					
25. Wrong time input errors detection					
26. Data storage					
27. Data retrieval					
28. Data edit/correction					
29. Tolerable difficulty level					
30. Production of data output					

Efficiency refers to the Student School Activities Attendance System Through Biometric Technology and Supreme Student Government Fines Collection Management System of what is actually produced or performed with what can be achieved in contrast with the traditional surveillance. In this study, it is an important factor in determination of productivity, To find also the efficiency level of the system software, put a check () in the box below the number that fits your response. The numbers are coded as follows:

- 5- Very Much Efficient
- 4- Much Efficient
- 3- Efficient
- 2- Fairly Efficient
- 1-Not Efficient

EFFICIENCY	5	4	3	2	1
31. Support on minimum facilities					
32. Support on minimum requirements					
33. Provision of configurable automation					
34. Support on business workflow process					
35. Support on number of user's					
36. Speed of navigation and production of outputs					
37. Speed of data capture and retrieval					
38. Hardware utilization					
39. Support on interfacing with other devices					
40. Compatibility with interfaced devices					

Maintainability pertains to be characteristics of the Student School Activities Attendance System Through Biometric Technology and Supreme Student Government Fines Collection Management System and its installation which determines the probability that its failure can be restored to its normal operable state within a given timeframe, using the prescribed practices and procedures. This involves two main components, namely: serviceability which includes the ease of conducting scheduled inspections and servicing, and reparability which describes the ease of restoring service after a failure. To evaluate the efficiency level of the system software, put a check () in the box below the number that fits your response. The numbers are coded as follows:

- 5- Very Much Maintainable
- 4- Much Maintainable
- 3- Maintainable
- 2- Fairly Maintainable
- 1-Not Maintainable

MAINTAINABILITY	5	4	3	2	1
41. Modification of the system software					
42. Change of software capabilities					
43. Increase program capabilities					
44. Improving performance					
45. Correction of program defects					
46. Accessibility for maintenance					
47. Configuration of system operation					
48. Flexibility for system modification					
49. Compliance of concurrent system requirements					
50. Advance feature for recent technology					

Portability refers to the ability of the Student School Activities Attendance System Through Biometric Technology and Supreme Student Government Fines Collection Management System to match the actual expected performance of the system being measured. Please indicate also the level of portability of the system software by putting a check () in the box below the number that fits your response. The numbers are coded as follows:

- 5- Very Much Portable
- 4- Much Portable
- 3- Portable
- 2- Fairly Portable
- 1-Not Portable

PORTABILITY	5	4	3	2	1
51. Modification of the system					
52. Adaptability to other environment					
53. Adaptability to other applications					
54. Flexibility to other settings					
55. Support in any form of network communication					
56. Adaptability to new version of system requirements					
57. System supports on maximum hardware requirements					
58. User capability/capacity					
59. Its intended application					
60. Its intended design					

**Remarks:**

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**Signature of Evaluator/Rater:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## **D. Scoring Procedure**







Republic of the Philippines  
**JOSE RIZAL MEMORIAL STATE UNIVERSITY**  
 The Premier University in Zamboanga Del Norte  
 Main Campus, Dapitan City



### LETTER TO THE PANELIST

May 2015,

**JOHN D. SAGAPSAPAN, M.S.I.T**

Computer Science Instructor  
 JRMSU, Dapitan City

Sir:

The undersigned are the 4<sup>th</sup> year BS Computer Science Students who are presently conducting the study entitled "**Students Activities Attendance using Fingerprint Scanner and SSG Fines Collection Management System**", in Dapitan City, Zamboanga Del Norte. This was partial fulfillment of the Subject CS project Thesis.

We would like to request your presence as one of the panelist in our Final Defense on May 17,2017 in the Quality Assurance Office.

We are hoping for your positive response on this request.

Very truly yours,

**Jumar C. Edrial**

**Ivan Clyde L. Pampilo**

**Grace Ann S. Obordo**

Approved by:

**ENGR. ANGELITO M.PUNZAL**

Adviser



Republic of the Philippines  
**JOSE RIZAL MEMORIAL STATE UNIVERSITY**  
 The Premier University in Zamboanga Del Norte  
 Main Campus, Dapitan City



### LETTER TO THE PANELIST

May 2015,

**ARMANDO T. SAGUIN, M.S.I.T**

Computer Science Program Head

JRMSU, Dapitan City

Sir:

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**Ivan Clyde L. Pampilo**

**Grace Ann S. Obordo**

Approved by:

**ENGR. ANGELITO M.PUNZAL**

Adviser



Republic of the Philippines  
**JOSE RIZAL MEMORIAL STATE UNIVERSITY**  
 The Premier University in Zamboanga Del Norte  
 Main Campus, Dapitan City



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Computer Science Instructor

JRMSU, Dapitan City

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**Ivan Clyde L. Pampilo**

**Grace Ann S. Obordo**

Approved by:

**ENGR. ANGELITO M.PUNZAL**  
 Adviser



Republic of the Philippines  
**JOSE RIZAL MEMORIAL STATE UNIVERSITY**  
 The Premier University in Zamboanga Del Norte  
 Main Campus, Dapitan City



### LETTER TO THE PANELIST

May 2015,

**JOSEPH AURELIUS JACINTO, M.S.I.T**

Computer Science Instructor

JRMSU, Dapitan City

Sir:

The undersigned are the 4<sup>th</sup> year BS Computer Science Students who are presently conducting the study entitled "**Students Activities Attendance using Fingerprint Scanner and SSG Fines Collection Management System**", in Dapitan City, Zamboanga Del Norte. This was partial fulfillment of the Subject CS project Thesis.

We would like to request your presence as one of the panelist in our Final Defense on May 17,2017 in the Quality Assurance Office.

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**Jumar C. Edrial**

**Ivan Clyde L. Pampilo**

**Grace Ann S. Obordo**

Approved by:

**ENGR. ANGELITO M.PUNZAL**

Adviser



Republic of the Philippines  
**JOSE RIZAL MEMORIAL STATE UNIVERSITY**  
 The Premier University in Zamboanga Del Norte  
 Main Campus, Dapitan City



### LETTER TO THE PANELIST

May 2015,

**PROF. ED NEIL O. MARATAS, M.S.I.T**

Computer Science Instructor

JRMSU, Dapitan City

Sir:

The undersigned are the 4<sup>th</sup> year BS Computer Science Students who are presently conducting the study entitled "**Students Activities Attendance using Fingerprint Scanner and SSG Fines Collection Management System**", in Dapitan City, Zamboanga Del Norte. This was partial fulfillment of the Subject CS project Thesis.

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Very truly yours,

**Jumar C. Edrial**

**Ivan Clyde L. Pampilo**

**Grace Ann S. Obordo**

Approved by:

**ENGR. ANGELITO M.PUNZAL**

Adviser



Republic of the Philippines  
**JOSE RIZAL MEMORIAL STATE UNIVERSITY**  
The Premier University in Zamboanga Del Norte  
Main Campus, Dapitan City



Dear Respondents,

The undersigned are gathering data for their research study entitled; **"Students Activities Attendance using Fingerprint Scanner and SSG Fines Collection Management System"**. Please evaluate the software with all your sincerity and honesty.

Your cooperation will contribute to the reliability of the data in this study.

Thank you very much.

Very truly yours,

**Jumar C. Edrial**

**Ivan Clyde L. Pampilo**

**Grace Ann S. Obordo**

Researchers

**EDRIAL, JUMAR C.****Cell #:** 09072081426**Address:** Canuto Enerio,  
Gutalac, ZN, Philippines**Email:** [edrialjumar@gamail.com](mailto:edrialjumar@gamail.com)**PERSONAL INFORMATION:**

Nickname	: mar
Gender	: Male
Age	: 27
Birthday	: June 21, 1989
Place of birth	: Canuto Enerio, Gutalac ZN
Civil Status	: Single
Citizenship	: Filipino
Religion	: Roman Catholic
Mother's Name	: Marlyn S. Sumalpung
Father's Name	: Pacifico F. Edrial Jr.

**EDUCATIONAL BACKGROUND:****College:****Jose Rizal Memorial State University, Tampilsan Campus**

Tampilsan, Zamboanga Del Norte

**Bachelor of Science in Computer Science**

2010-Present

**Jose Rizal Memorial State University, Main Campus**

Dapitan City, Zamboanga Del Norte

**Bachelor of Science in Computer Science**

2010-Present

**High School:****Gutalac National High School**

Gutalac, ZN

2005-2006

**Elementary:****Canuto Enerio Elementary School**

Canuto Enerio Gutalac, ZN

2001-2002

**TRAINING/SEMINARS ATTENDED:****GOOGLE DEV. FEST**

Cultural Sports Center

Dapitan City

November 25-26, 2016

**NCII**

Jose Rizal Memorial State University, Main Campus

Dapitan City

November 25-26, 2016

**PERSONAL DEVELOPMENT**

JRMSU Gymnasium

Dapitan City

March 9, 2016

**PERSONAL DEVELOPMENT**

JRMSU Audio-Visual Room

Dapitan City

February 15, 2017

**BASIC CIRCUIT MAKING**

Jose Rizal Memorial State University

Dapitan City

November 21, 2015

**Seminar-Workshop on Campus Journalism skills**

Kipit Agro-Fishery High School

Labason Z.N

July 10-11, 2004

**Youth Values Formation Semenar (YVFS)**

Community Center Bldg.

Salug Z.N

July 4-10, 2015

**Leadership Training Semenar**

St. Isidore Parish

Gutalac Z.N

March 11-12, 2005

**PAMPILO, IVAN CLYDE L.**  
**Cell #:** 09071505741  
**Address:** Galas,  
Dipolog, ZN, Philippines  
**Email:** [pampiloivan@gmail.com](mailto:pampiloivan@gmail.com)

---

#### **PERSONAL INFORMATION:**

Nickname	: Van
Gender	: Male
Age	: 21
Birthday	: October 22, 1996
Place of birth	: Galas Dipolog, City
Civil Status	: Single
Citizenship	: Filipino
Religion	: Roman Catholic
Mother's Name	: Lucille L. Pampilo
Father's Name	: Magno T. Pampilo

#### **EDUCATIONAL BACKGROUND:**

**College:**  
**Jose Rizal Memorial State University, Main Campus**  
Dapitan City, Zamboanga Del Norte  
**Bachelor of Science in Computer Science**  
2012-Present

**High School:**  
**Sulangon National high School**  
Gutalac, ZN  
2009-2012

**Elementary:**  
**Sulangon Central School**  
Canuto Enerio Gutalac, ZN  
2003-2008

#### **TRAINING/SEMINARS ATTENDED:**

**GOOGLE DEV. FEST**  
Cultural Sports Center, Dapitan City  
November 25-26, 2016

**NCII**  
Jose Rizal Memorial State University  
November 25-26, 2016

**PERSONAL DEVELOPMENT**  
JRMSU Gymnasium, Dapitan City

**BASIC CIRCUIT MAKING**  
Jose Rizal Memorial State University  
November 21, 2015

**OBORDO, GRACE ANN S.**  
**Cell #:** 09102320982  
**Address:** Purok Santan, Owaon  
Dapitan City, ZN, Philippines  
**Email:** obordograce@gmail.com

---

**PERSONAL INFORMATION:**

Nickname	:	Gracia
Gender	:	Female
Age	:	21
Birthday	:	February 21, 1996
Place of birth	:	Dapitan City
Civil Status	:	Single
Citizenship	:	Filipino
Religion	:	Roman Catholic
Mother's Name	:	Rosenie S. Obordo
Father's Name	:	Edmund H. Obordo

**EDUCATIONAL BACKGROUND:**

**College:**  
**Bachelor of Science in Computer Science**  
Jose Rizal Memorial State University  
Main Campus, Dapitan City  
2014-Present

**Bachelor of Science in Computer Science**  
Negros Oriental State University  
Main Campus, Dumaguete City  
2012-2014

**High School:**  
**Sicayab National High School**  
Sicayab, Dipolog City  
2008-2012

**Elementary:**  
**Dapitan City Central School**  
Dapitan City  
2001-2008

**TRAINING/SEMINARS ATTENDED**

**GOOGLE DEV. FEST**  
Cultural Sports Center  
Dapitan City  
November 25-26, 2016

**NCII**

Jose Rizal Memorial State University  
November 25-26, 2016

**PERSONAL DEVELOPMENT**

JRMSU Gymnasium, Dapitan City

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