PUPILS MODULE MONITORING SYSTEM WITH SMS NOTIFICATION OF STA. CRUZ ELEMENTARY SCHOOL, STA. CRUZ, SIERRA BULLONES, BOHOL

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ABSTRACT

This study aimed to develop and design a Pupil's Module Monitoring System with SMS notification of Sta. Cruz Elementary School, Sta. Cruz Sierra Bullones, Bohol which adopts the computerized procedure of recording the submission and retrieval as well as tracking the status of Pupil's self-learning modules. The development of the system is guided by analyzing the processes involved in monitoring, retrieval and distribution of student modules. With the approval from the head teacher, an interview, document review and observation were conducted. In the current process of module distribution, they use manual process, teachers encounter difficulties like, finding the records of Pupils who did not submit their SLM, parents who did not follow the submission dates etc. Based on the problems identified and the needs of the institution, the system was developed with offline networking mechanism in retrieval and distribution of student modules. During the testing and implementation, a system usability questionnaire was used to assess the applicability of the system. Based on the findings, the target users rated 6.44 "Strongly Agree" this indicate that this system is usable and provides satisfactory among the respondents. In conclusion, the developed Pupil's Module Monitoring System with SMS notification improved the user's retrieval and distribution of student's modules. Thus, it was highly recommended that the Pupil's Module Monitoring System with SMS notification of Sta. Cruz Elementary School will be implemented.

CHAPTER 1

THE PROBLEM AND ITS SCOPE

Rationale

In the Philippines, education in the new normal is a challenging task to augment the educational gap amidst the pandemic situation. The Department of Education (DepEd) and Commission on Higher Education (CHED) adopted and implemented the flexible model of blended learning as the means continue the delivery of education. (Anzaldo, 2021). According to a survey conducted by the Department of Education (DepEd), learning through printed and digital modules emerged as the most preferred distance learning method of parents with children who are enrolled this academic year (Bernardo, 2020). Parents play a vital role as home facilitators. Their primary role in modular learning is to establish a connection and guide the child (FlipScience,2020). Lack of funding for production and delivery of modules as well as monitoring of modules submitted to and from the school had prose to be a main challenge for schools (Dangle et. al., 2020).

Sta. Cruz Elementary school in Sierra Bullones also encounter similar challenges. Majority of parents did not adhere to their assigned schedule for obtaining and retrieving the modules. This resulted in teachers unnecessary reporting to schools as they went back and forth just to entertain the parents. Given the circumstances of the COVID-19 infection, this posed a significant health risk for them. Parents failed to return the Student Learning Module (SLM) on date of submissions making the student missing in that certain week. During the module distribution parents and guardians were required to fill out the attendance manually

for the means of record upon obtaining and retrieving of modules which also serve as a contact tracing system. The manual attendance sheet is easily expose to elements that could destroy or ruin the record. Keeping these issues in mind, a system is designed to overcome the problems associated to module distribution.

In regards to this, the researcher's conducted the system development study of considering a pupil module monitoring system using Quick Response (QR) code with Short Messaging System (SMS) notification as means to helped the school minimize the problem. The system developed manual recording of attendance, able to view names of missing and submitted modules, attendance, send SMS to those parents who failed to submit modules, print and generate weekly submission of modules reports in an efficient manner.

Literature Background

Republic Act No. 11448 known as the "Transnational Higher Education Act", addressed the noted lack of internationalization policies and strategies of Philippines higher education institutions while expanding access to education through transnational higher education opportunities. Higher education shall serve as a principal instrument for generating productive knowledge, innovation and technology to develop relevant and technical higher order skills needed to compete in the knowledge economy to redound in, and ensure, resource generation. In this light, the State shall endeavor to modernize the Philippine higher education sector, and bring international quality standards and expertise into the country, with a view to making higher education globally competitive, attracting a flow of talented

students, faculty, and staff and improving the country's human resource base. (Official Gazette of the Republic of the Philippines, 2018)

Republic Act 10650 (Open Distance Learning Law) supports the assistance to relevant national agencies, higher education institutions, and technical and vocational institutions in developing their distance education programs through training, technical assistance, research and other academic programs.

CHED Memorandum Order (CMO) No. 4, series of 2020, "Guidelines on the Implementation of Flexible Learning" this supports CHED initiative gave schools and universities more leeway to decide on the design and delivery of programs, courses and learning interventions that would address learners' unique needs in terms of place, pace, process and outcomes. It supports the use of digital and non-digital technologies and covers both face-to-face or in-person learning, out-of-classroom learning modes of delivery, or a mix of modes of delivery.

Moreover, on set of COVID-19 pandemic, the Department of Information and Communication Technology (DICT) released Department Circular No. I2-B known as "Digital Education Program – Project 2 - Accelerated implementation of the Pilot Project for cyber safe learning for education in response to the state of public health emergency due to COVID-19. The State is required by the 1987 Constitution to (a) defend and promote the rule of law. Yet, 2020, declared a State of Public Health emergency and Calamity throughout the Philippines due to the Coronavirus Disease 2019 (COVID-19), and enjoined all government agencies and local government units to render full assistance and cooperation, and to mobilize the necessary resources to undertake critical, urgent, and appropriate

response measures in a timely manner to address the COVID-19 threat. The DICT is mandated to formulate and implement initiatives for the development and promotion of DICT in education, consistent with the national goals and objectives, and responsive to the human resource needs of the ICT and JCT-Enabled Services (ICT-ES) sectors.

The significant negative impacts of the COVID-19 public health emergency upon education, and the impending inability of the education sector to continue with classes and courses for school year (SY) 2020 without exposing its students, teachers, and administrators to the risk of COVID-19 infection, need to be urgently counteracted through immediate action and response in order to prevent or avoid the loss of education and learning services, increased dropouts and educational inequality, the negative effects upon the people and the children's physical, mental, and social well-being, the social and economic disruption, and the economic shock to the nation. The DICT Digital Education Program aims to create virtual and physical platforms for delivering instructions in formal, informal, and non-formal education and to develop digital skills, stimulating the creation of JCT-based jobs and industries, and facilitating adaptation and participation of public and private sectors in an evolving digital society. This memorandum strengthens the development of a tool to be utilized by the target client to augment the needs identified.

In the Article XIV, Section 10 of the Philippine Constitution state that:

"Science and Technology are essential for national development and progress. The state shall give priority to research and development, invention,

innovation, and their utilization; and to science and technology education, training, and services. It shall support indigenous appropriate, and self-reliant scientific and technological capabilities, and their application to the country's productive systems and national life."

According to this Article, the state must prioritize the adaptation of science and technology, as well as their application, so that its institutions can quickly adjust to changes and progress. All these legal bases aid the researchers in developing system to facilitate recording and monitoring module submission of pupils for the Sta. Cruz Elementary School.

To come up with an effective system, recording must be able to control the storage, retrieval, and integrity of data within the database. As a result, the DBMS theory is to be in need for the accomplishment of the research. Hence, the following related theories from Edgar F. Codd's 12 Commandments for relational database beneath are used as a basis for the development of the system.

Edgar Codd's Foundation Rule any system that is advertised as, or claimed to be, a relational database management system, that system must be able to manage databases entirely through its relational capabilities. This means that there's no need to use host language to do anything inside the database. Rule 2 stated, data is guaranteed to be logically accessible. This is commonly known as the guaranteed access rule, ability to directly access via pointer is a violation to this rule. Rule 7 known as Relational Level Operation, high level of insert, update, delete, this rules states that, the capability of handling a base relation or a derived relation as a single operand applies not only to the retrieval of data but also to the insertion, update, and deletion of data in the database.

In addition to similar system have been designed and implemented which is carried out by various organizations and institutions that were used as references of this study. These are some examples:

1. **ICT tools patterns of use among Malaysian ESL undergraduates.** The study revealed that so called “Digital Natives” were inclined to use technology for social rather than academic activities (Dahal, et. al., 2020). This supports the capacity of the parents and even pupils with less technology adaptation has interest in learning to use technology. While the study promotes negative in the application to academic learning, the tool will be use to extend ease and efficiency in the completion of the task.
2. **PUP Students Monitoring using RFID with an SMS Advisory.** This system has been developed to monitor the arrival of students. Students will use the RFID Card, upon entering the school campus. The function of SMS advisory is it’ll give the parents notification (Del Rosario, 2012).
3. **What makes ICT implementation successful: a case study of online assignment submission.** Within open and distance learning, the use of information and communication technologies (ICTs) to enhance learning and teaching is becoming more common. This article evaluates the successful deployment and customization of an online assignment submission system. It uses this knowledge as well as the Technology Acceptance Model (TAM) to pinpoint the variables that contributed to the system's success. It also claims that the emergent development process

used contributes to the formation of these attitudes (Jones, 2005). Similarly, the study methodology is adopted.

4. **SMART ATTENDANCE SYSTEM USING QR CODE WITH SMS NOTIFICATION**. This attendance system aimed to facilitate the lecturers whereby the student attendance record is automatically saved in database. The students need to scan the QR Code that have been set by the teachers, notify the parents via SMS notification and save the time (Fatin, 2020).
5. **A Student Attendance System using QR Code.** The system lies traditional learning as a facilitation for the attendance record-keeping process, in a way that enriches the tracking time so that it can better be utilized in giving useful materials rather than wasting the time taking attendance (Fadi, 2014).

The existence of the aforementioned systems and theories served as a foundation and theory building of the design and development. This contributed to meet the specification and design for the development of Pupil Module Distribution with SMS notification of Sta. Cruz Elementary School.

THE PROBLEM

Statement of the Problem

The study aimed to develop a Pupils Module Monitoring System with SMS Notification of Sta. Cruz Elementary School, Sta. Cruz Sierra Bullones, Bohol.

The goal of the study was to find answers to the following questions:

1. What are the problems encountered in the module distribution and collection that needs to be resolved?
2. What possible solutions can be offered to answer the problem encountered?
3. What is the level of system acceptability as perceived by the target user?

The proposed system is to be called Pupils Module Monitoring System with SMS Notification and it will integrate the following processes:

1. Implement an offline system which can be connected vie WAN that would help the teachers in managing and monitor the module distribution.
2. Design and implement the following modules:
    a. registration,
    b. monitoring,
    c. administration.
    d. reporting and,

3. Implement business intelligence technique for decision-support to the establishment.

Scope and Delimitation

This study focused on the development of Pupils Module Monitoring System. The Pupils Module Monitoring System with SMS Notification of Sta. Cruz Elementary School, Sta. Cruz Sierra Bullones, Bohol serve as the way of monitoring the module of the pupils. These are the following modules used in developing a system.

1. Offline Mechanism – this feature enables the system to be developed accessible offline no internet connections needed.
2. Registration - this module guides you through the process of entering data and information.
3. Monitoring - this feature allows you to keep track of your pupil's weekly records of SLM.
4. Administration - this function provides administrative tools for system maintenance, system configuration, and user, privilege, and security information.
5. Reporting - It will entail the statistical reporting technique's data visualization. It will provide customizable data in tabular formats, such as a list of enrolled pupils and daily and monthly attendance for pupils.

This study is limited only to the standard operations and procedures in the Sta. Cruz Elementary School – Sierra Bullones, Bohol including recording the data of students and parents, updating, monitoring data of students and parents, and

generate reports. The users of the system are limited to the head teacher and teachers of the Sta. Cruz Elementary School.

Significance of the Study

The study Pupil's Module Monitoring System of Sta. Cruz Elementary School – Sta. Cruz Sierra Bullones, Bohol aimed to develop to have a computerized information for faster recording and dependable access to the information of Pupils module. This system would serve as the repository of all the data of the Pupil's Module Distribution records.

Moreover, this study would be beneficial to the following:

Teacher. The developed system would promote efficient recording and effective monitoring of pupil output by allowing teachers to monitor and manage the modules of their own advisory. This would reduce faculty time spent doing manual task of monitoring module distribution and submission of modules.

Head of the School. The system provides graphical reports and functions that the head teacher will easily inspect the list of inattentive students recorded by the teachers then, the system promotes technological edge in DepEd adaptation by providing a better means of process completion.

Pupils. Pupils can benefit from the convenient service by receiving timely and accurate updates on their records provided by the system. Pupils answered the weekly modules that has 8 subjects given by the teacher. If pupil's failed to return one subject or did not answer a certain subject upon the distribution of

modules, then the system will record it missing then notify the parents for missing subject.

Parents. Parents are the ones that submit and receive the modules from the school. The system provides SMS notification, reports of their children's module, and computerized module distribution that would help the parents in module distribution, making them able to minimize the load they've done, it also helps them to easily track the record of their pupil's as well as for contact tracing.

Researchers. The study would benefit the researchers because they would be able to apply their knowledge and develop their various talents. They would discover the importance of teamwork and hard work in order to achieve their objectives. Furthermore, the researchers would improve their abilities to make a system, which would serve as a stepping stone to future practice of their chosen professions.

RESEARCH METHODOLOGY

Development Framework

Figure 1 depicts the method, approach, and set of rules for analyzing the principles that guide investigation in a specific topic. The system displays the study's model based on the input-process-output principle. These inputs are coming from the administration of the system. It covers the specification o the system that represents the work of the teacher and the head. The processes include the registration, administration, monitoring and reports

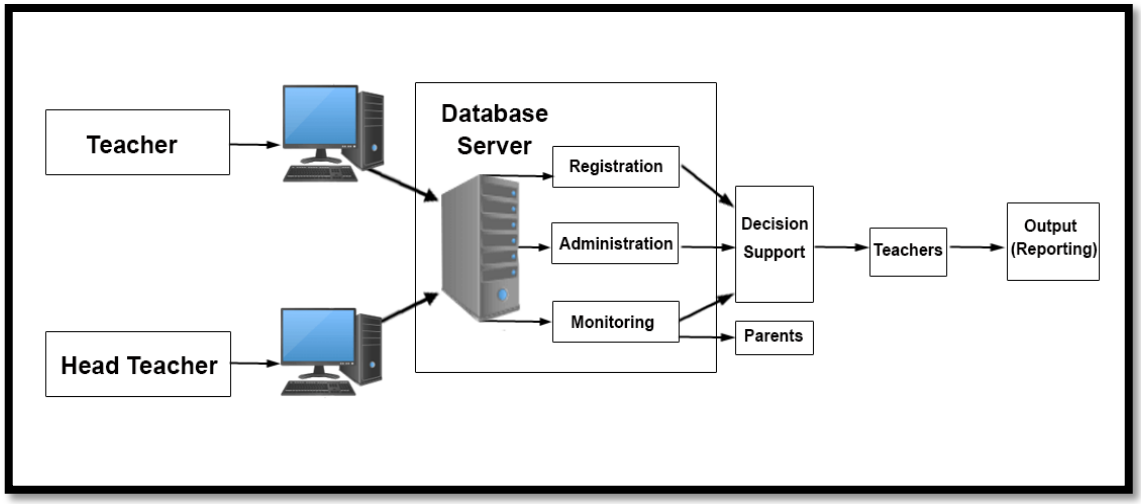


Figure 1. Conceptual Diagram of the System

Figure 2 shows the block diagram of the proposed system Pupil's Module Monitoring System with SMS Notification. It covers the specification of the basic functionality of the system.

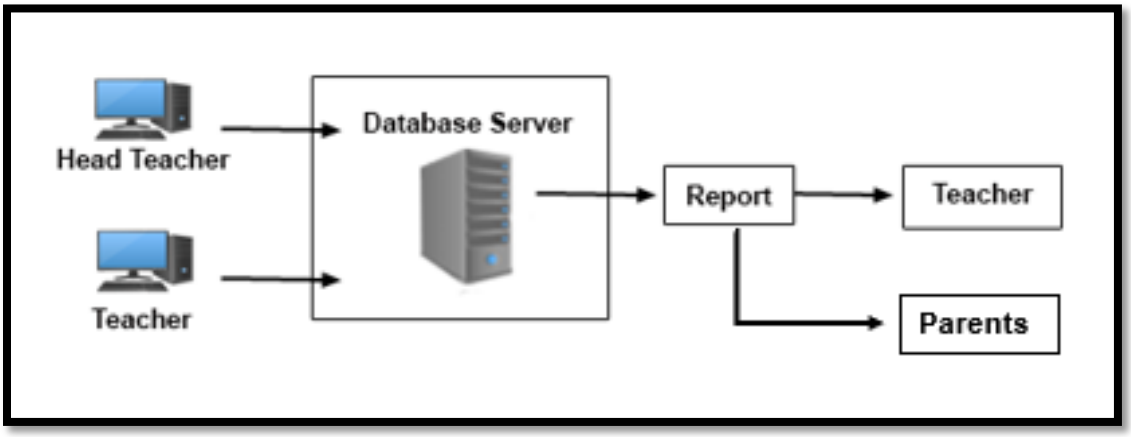


Figure 2. Block Diagram of the Study

Development Model & Approaches

The most popular procedure for developing a project is the Systems Development Life Cycle (SDLC). A waterfall model is a sequential model process in which a phase's input is derived from the preceding phase's output.

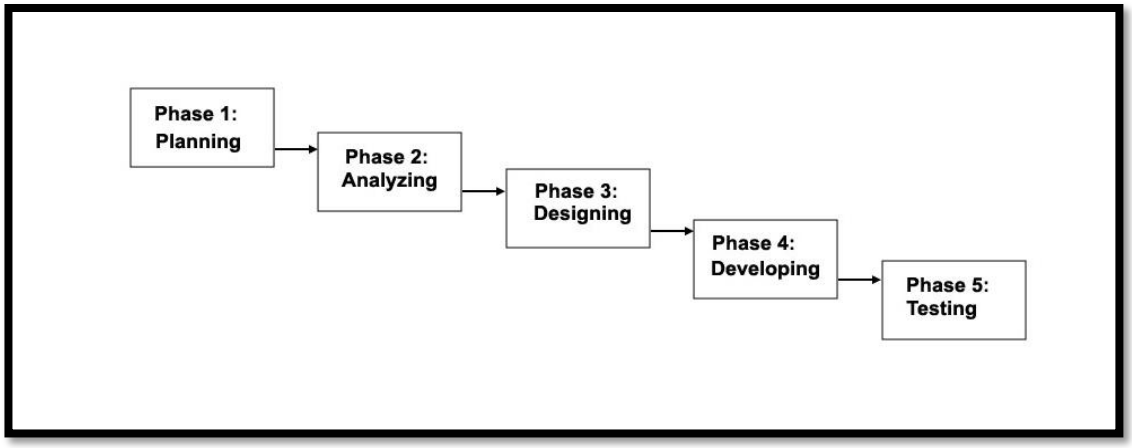


Figure 3. System Development Model: Waterfall model

This model comprises five phases, the first of which is the planning step. The planning stage decides the project's goals and if it should move further. This is the point at which the proposal submission completes the phase. The next step is to conduct an analysis after receiving approval. The system and user requirements must be gathered and analyzed before moving on to the design phase.

After the user requirements have been gathered, the resources for the project must be prepared. This step comprises rigorous consideration and selection of software and hardware components. The next stage is to further elucidate on the suitable resources to be employed. The system and database structure must then be designed.

The analysis and preparation that were completed in the previous step are put into practice. The system's flow is created with the user's demands in mind, and the user interface is designed to meet their needs for easy navigation. The

database's number of tables, attributes, primary keys, and unique keys are also listed.

Following the completion of the design, actual coding began with the creation of a database and the writing of programs. Some of the codes needed to be changed or improved. At this point in the waterfall model, it was altered. Testing begins once the work is complete. The scripts and database are put through their paces to confirm that the outcomes are as expected. Because it is unavoidable to have errors and issues during the integration, more time is spent on both the development and testing stages. Hardware must be connected and functional, with constant checking with the client as a procedure.

After completion of the design, actual coding began and database is created and codes were written. Some of the codes required amendments and improvement. It was revised at this stage of the waterfall model. With the complete development,testing begins. The codes and database are tested to ensure the results obtained are as intended. More time is spent on both development and testing stages because it is inevitable to have erors and issues on the integration the hardware needs to be connected and fuction with the constant checking with the client as the procedure.

After which, testing and benchmarking of the system were done to conclude the development. Implementation of the system flows after critiquing and the nece-

necessary revision was made.

The following were the tools used during the analysis and design phase of Pupil's Module Monitoring System with SMS Notification of Sta. Cruz Elementary School, Sta. Cruz, Sierra Bullones, Bohol.

Bunifu Framework- it was used in the developed system for more interactive design, the buttons, panels, etc.; it is a DLL driven tool used to make awesome desktop application.

Crystal Report – it is used in the system develop for generating and printing reports.

QR Code – is a type of barcode that can be read easily by a digital device and which stores iformation as a series of pixels in a square shaped grid, this code are used in the developed system that is encoded with alphabets which is used to point students in recording the submission and retrieval of module.

Visual Basic.Net - The IDE used to develop the system from scratch to a complied application, this VB.Net is designed to help you create type-safe, object-oriented applications quickly. Visual Basic allows developers to create applications for Windows, the Web, and mobile devices. Microsoft established and developed this well-known programming language. Visual Basic is distinguished by its straightforward, easy-to-understand format.

WAMP - It used in the developed system for online viewing and database management, since it is a Windows web development environment tool that enables you to create web applications using Apache, PHP, and MySQL databases.

Environment and Participants

The study was conducted at Sta. Cruz Elementary School, located in Sta. Cruz Sierra Bullones Bohol. It is 2.4km away from Sierra Bullones Municipal Hall. During pandemic the school opens every Friday for module distribution, there's some circumstances that Friday is a non-working day so the schedule is move to Monday 8:30 am to 4:30 pm. The respondents are the head teacher, teachers, and parents. The head teacher who has full access to the system and can use it to perform task such as add new pupils, and can update their information in all grade level. The teacher who can create QR code for his/her advisee, can also add advisee, can view module status and can notify parents about their module status. The final set of participants were the parents who will submit the self-learning module of their child.

Data Collection

To gain a better understanding of current practice, the researchers requested permission to conduct a study through a letter request. A personal interview with the faculty and the head teacher, using a guide or pre-designed questionnaire to obtain specific data on the problems encountered and current processes in student personal information. This study focuses on managing student data, recording and monitoring modules, and module tracking. The researchers did the actual observation by having a direct exposure and meticulous observation of the procedures related to the actual process. Document review was also carried out in order to obtain the necessary information regarding the procedures and processes carried out by the operations for the database design.

Following the creation of the system, a functional evaluation was undertaken with the target client using a system usability testing. The target consumers were presented with the system's usability, functioning, and features. It was done to quantify the usefulness of the established system, gain a better understanding of how real users interact with it, and improve the system's outcomes. Following the presentation, participants were given the opportunity to participate in a hands-on exercise, and a questionnaire was presented to gauge the system's acceptability. The respondents in the customized questionnaires were given enough time to rate the quantity of items. The system usability testing was graded using Lewis James R's system usability questionnaire, which asked whether users were pleased with the system's functionality. In the system usability test, 18 people responded. One school head, 6 faculty members, 3 IT Experts and 8 parents are among them. The table 1 shows the summary of respondents in the system usability.

Table 1

Summary of Respondents in the System Usabilty

Respondents	**Frequency**
IT Experts	3
School Head of SCES	1
Teachers	6
Parents	8
Total	18

The table 2 shows the interpretative guide for the statistical result of the system usability. The range of the interpretative guide for usability was computed by getting the interval value.

Table 2

Interpretation Guide of the System Usability

Weight	Range	Description	Interpretation
7	6.4 – 7.0	Strongly Agree	The respondents strongly believe and are confident that the system is very usable.
6	1.5 – 6.3	Agree	The respondents believe and are confident that the system is usable.
5	4.6 – 5.4	Tend to Agree	The respondents tend to agree that the system is usable.
4	3.7 – 4.5	Neither Agree or Disagree	The respondents are neutral in trusting that the system is usable.
3	2.8 – 3.6	Tend to Agree	The respondents lend not to trust that the system is usable.
2	1.9 – 2.7	Disagree	The respondents believe that the system is not usable.
1	1.0 – 1.8	Strongly Disagree	The respondents are strongly confident that the system is not usable.

Following the development of the system, the functioning of the developed system was evaluated, as well as the system's usability.

To come up and determine the general acceptability of the system, the average weight mean or the weighted mean score was computed to evaluate/assess the system acceptability as perceived through the following formula:

$$\mathbf{WMS} = \frac{\mathbf{1f1 + 2f2 + 3f3 + 4f4 + 5f5}}{\mathbf{n}}$$

Where:

WMS=Weighted Mean Score

f^1 = frequency of respondents given a rate of 1

f^2 = frequency of respondents given a rate of 2

f^3 = frequency of respondents given a rate of 3

f^4 = frequency of respondents given a rate of 4

f^5 = frequency of respondents given a rate of 5

n = total number of respondents

1, 2…5 = constant (rating to the service provided)

The table in the previous page shows the interpretative guide that was used to describe the usability of the system.

OPERATIONAL DEFINITION OF TERMS

To facilitate comprehension of the concepts used in the study, the following terminologies were defined operationally.

Agile Model – is a methodology for modelling and the one used in developing this software systems.

Bunifu Framework – it is a tool which provides creative and easy way to design a system.

Host system – a computer hardware that will make the created software run.

Information – the information gather from participants like name, address, age, name of parents/guardians, grades, etc.

Module Monitoring System with SMS Notification of Sta. Cruz, Elementary School – the system to be developed to manage at ease the module distribution and retrieval of Sta. Cruz Elementary School.

MySQL – is an open source relational database management system that we use in our system for storing of information etc.

QR Code - (Quick response code) it is a type of matrix barcode or two-dimensional barcode, use to provide easy way of recording the module.

SLM – Self Learning Module of pupils in Sta. Cruz Elementary School.

Sta. Cruz Elementary School. Is the name of the school which will use the developed Student Information System of Sta. Cruz Elementary School.

Student-related data – refers to the students personal information such as address, contact no.

Vb (Visual Basic) – is designed to help you create type-safe, object-oriented applications quickly. Visual Basic allows developers to create applications for Windows, the Web, and mobile devices. Microsoft established and developed this well-known programming language. Visual Basic is distinguished by its straightforward, easy-to-understand format. The IDE used to develop the system.

Chapter 2

PRESENTATION OF FINDINGS, ANALYSIS AND INTERPRETATION OF DATA

Existing Operation and Processes

The present method of operation for the Module Distribution System of Sta. Cruz Elementary School, Sierra Bullones is done manually. If parents or guardians want to submit and retrieve SLM they approach the children's adviser. The submitting and retrieving of module are done every Friday. However, there are some instances that Friday is a non-working day, so the distribution is moved.

A. Generation list of pupils

In the generation list of Pupil's, the teacher will view all the weeks module attendance then encode It into the class record. The teacher will summarize who are the pupils who submit their SLM and who did not.

B. Distribution Process

During pandemic the institution adopts way of teaching by modular learning. During the distribution of module, the teacher will notify the parents or guardians on when is the day of module distribution by posting in the gate. During the distribution, Teacher will ask the parent/guardian what is the name of the student before the he/she gives the SLM, parents will be ask to write their name, address contact no. name of student and signature in the bond paper which serve as the attendance, then he/she will give out the new module and the written attendance will be kept in attendance folder.

C. Submission of module

The submission of module is taken care during the day of distribution, the parents/guardian will give the answered module to the Teacher, then the written attendance will be use as the proof of submission.

D. Monitoring of module

In monitoring of module, the Teacher will look into the written attendance, that has been kept in the attendance folder and the and the list of claimed and unclaimed modules that is also kept in records folder, for monitoring the pupils who submit and claim their SLM.

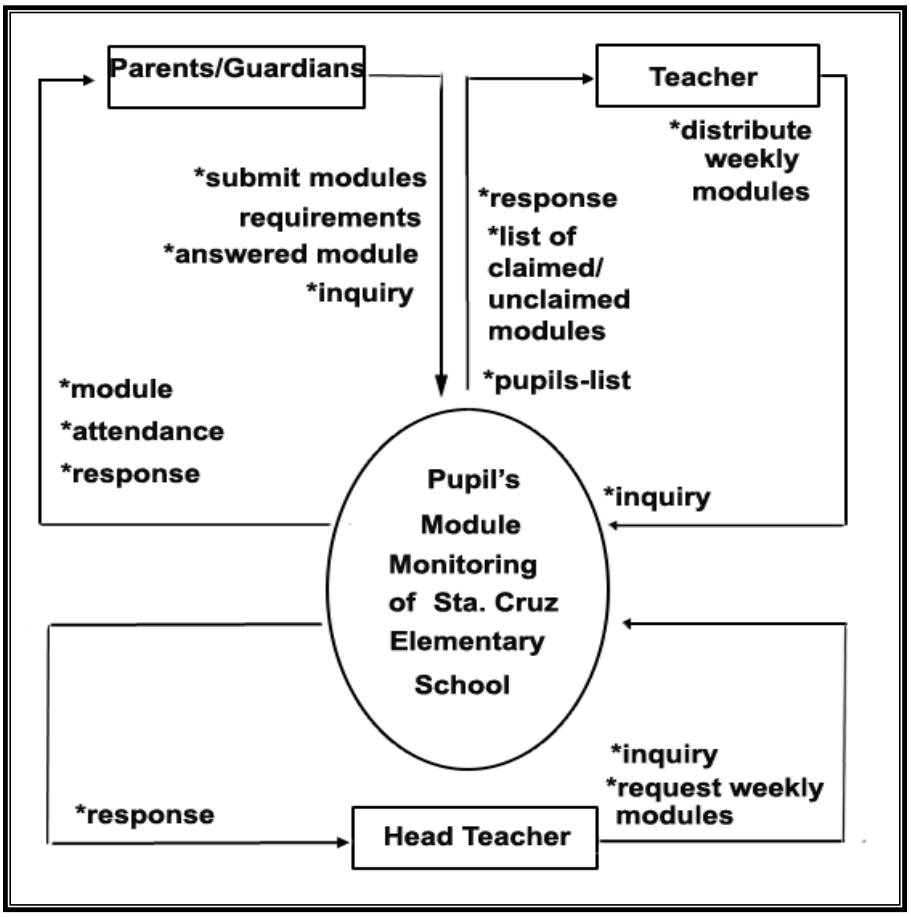
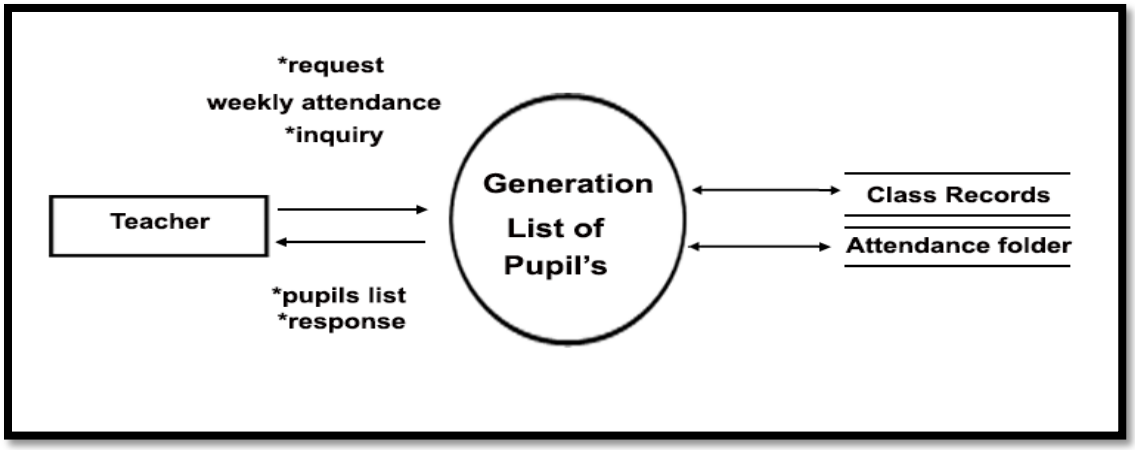


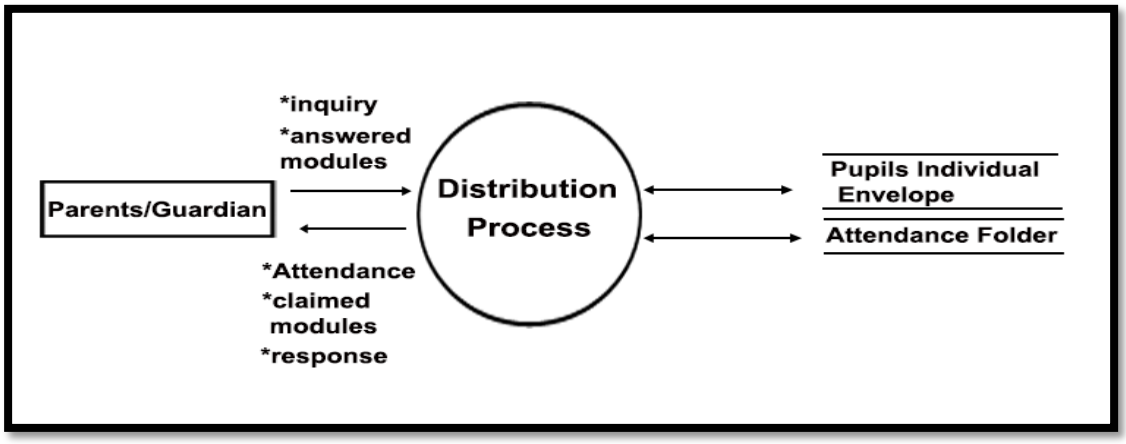
Figure 4. Context Diagram of the Present System

Event List:

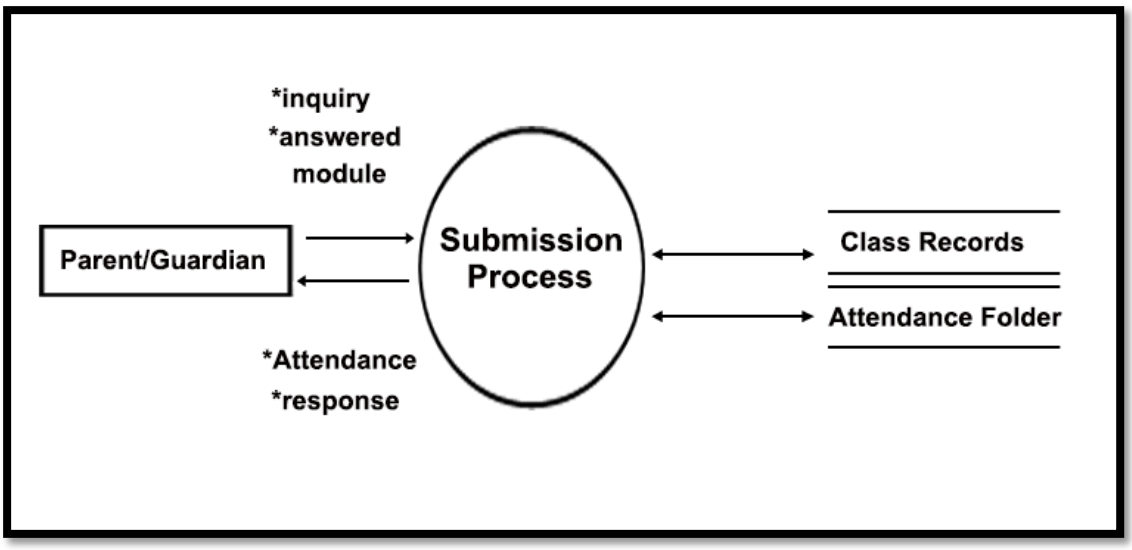
1. Generation list of Pupils
2. Distribution Process
3. Submission Process
4. Process of Module Monitoring



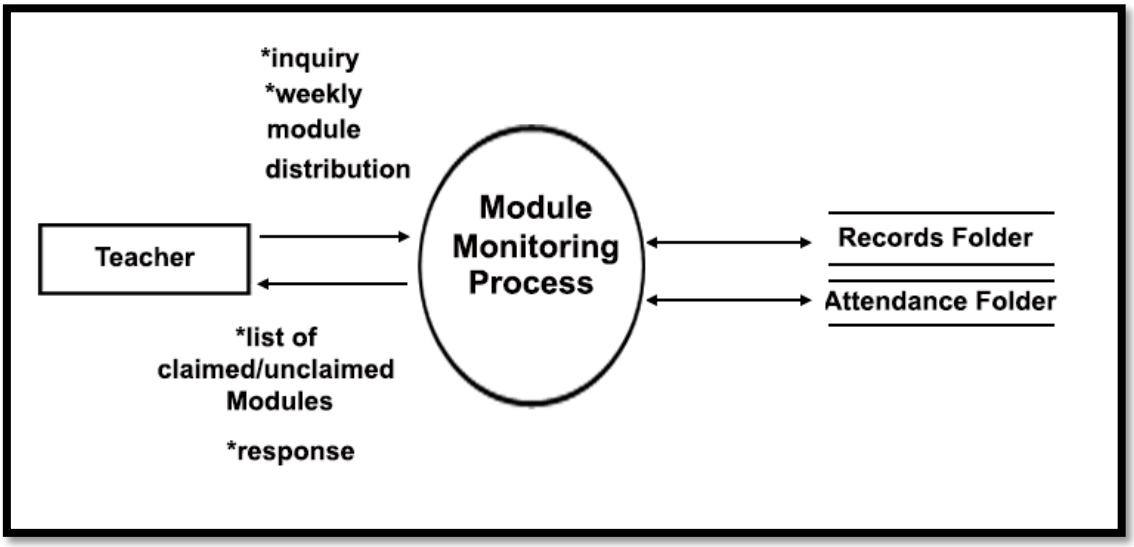
Event 1: Generation list of Pupils



Event 2: Distribution Process



Event 3: Submission Process



Event 4: Module Monitoring Process

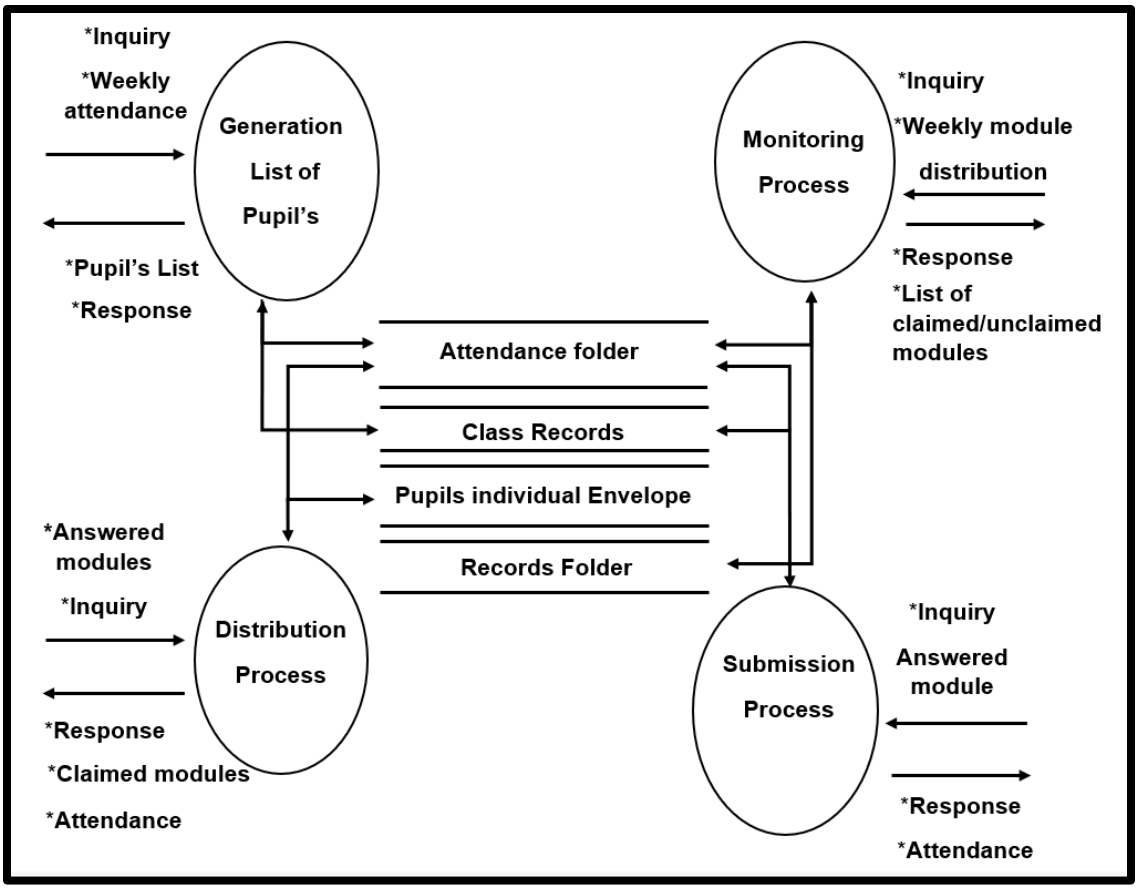


Figure 5. Top Level of the Present System

Needs of the Existing Operation

The present process of Pupils Module Distribution of Sta. Cruz Elementary School encountered several difficulties in processing and recording data due to manual operation. With this case, it was needed to have a computerized system so that the records will be secured and accurate.

1. Faster recording of submission and retrieval of module distribution records
2. SMS message to notify parents from module distribution day.
3. Computer-based database to handle vast amount of information.
4. Timely generation of updated reports.

Pupils Module Monitoring System of Sta. Cruz Elementary School

The needs of present system serve as basis for the development of the features of the Pupils Module Monitoring System of Sta. Cruz Elementary School. This study is expected to address the problems encountered in the present system.

Before using the Pupils Module Monitoring System of Sta. Cruz Elementary School, the researchers suggest to train the head teacher to ensure the security of the information that is stored in the presented system, and to make the system more effective, it is further suggested that the head teacher will create an account for the faculties who will use the system.

A. Recording

In the process of recording the teacher can save, update and view the information of their own advisee. In saving the system will generate a QR Code then it will save to QR Code directory. Those QR Code are ready to be print out for module distribution.

B. Checking of Module Distribution Attendance

In checking of attendance, every parent/guardian who's responsible in submitting the modules, parents will only align the QR Code, however if the parents are not capable of task, then the teacher will be the one to do the scanning. The scanning procedure will automatically save the submission of the past SLM and retrieval of present SLM. Then in teacher will simply view the attendance records in the system save after scanning the QR Code in the module

C. Module distribution

In module distribution, the teacher will create a form including the module title, date of released, name, last name, middle name, grade of the pupils and then she/he will generate the QR code. The QR code will be attach to the module folder of the pupils. When the parents pass the module of his/her children, the faculty will scan the QR code of the module folder and automatically save the information to the data base and this will show the module status done. If the module didn't receive in the schedule date the system will automatically mark as late, and if the module has not been received by the teachers, the system will automatically mark as missing.

In module distribution includes the monitoring in which the teachers can monitor the reports, and the information of module distribution created by the system. the summary of information gathered in the module distribution is presented in the dashboard which can be fully view in the module distribution records, this contains the list of claimed, unclaimed, lacking of SLM. teacher can notify via SMS the parents for the concern of their child's SLM.

D. Inquiry Process

The head teacher can easily provide printouts of the following: List of registered pupils of the school year, the attendance of the parents and guardians submitting the LSM weekly, the pupil's information will be recorded, the information of the pupils including their photo, last name, first name, middle name, gender, birthdate, mobile number, address, grade level, parent/guardian, parent/guardian mobile number, parent/guardian address.

E. Generation of Reports

This module provides the list of registered pupils, list of pupils who submit and who did not on the submission date, weekly Attendance of the module distribution.

F. Administration

The system has two users; the head teacher which has full access to the system and the faculty can add pupils only in their class advisory, view his/her pupils, update his/her pupils, checking daily attendance of his/her pupils, viewing pupils attendance record, creating QR code for their modules to be given to their pupils.

In the administration, the head teacher must login first into the system in order to begin the operation using their username and password. The head teacher can access all the information of the system while the faculties can enroll pupils only in his/her class, can only view the pupils list of their class advisory, viewing the daily attendance form, viewing the attendance record of their pupils and creating QR code for their modules. They need to log-in in order to access the system. The head teacher and faculties must enter the username and password. If the entered values will match in the database, the user may begin to access the system. This log-in system is used for security reasons to avoid intruders to access the data that may cause problem to the system.

Use Case Diagram

UML Use case diagrams is usually referred to as behavior diagrams used to describe a set of actions (use cases) that some system or systems (subject) should or can perform in collaboration with one or more external users of the system (actors). A use case represents a functionality of the system from the viewpoint of the user and describes the goals of their use. Each use case should provide some visible and valuable result to the actors or other stakeholders of the system. As shown in the diagram, the school head has full access to the system and can add users, register new pupil, view pupils information, update pupils information, manage pupil information, manage all pupil attendance, send announcement to all parents, and manage module distribution record, whereas the user/faculty only has limited access to the system and can only add pupil grades, view pupil information, update pupil information, add advisee's attendance, view advisee's attendance and send announcement to his/her advisee's parents and guardians. Parents can only align the QR code to the scanner for module distribution.

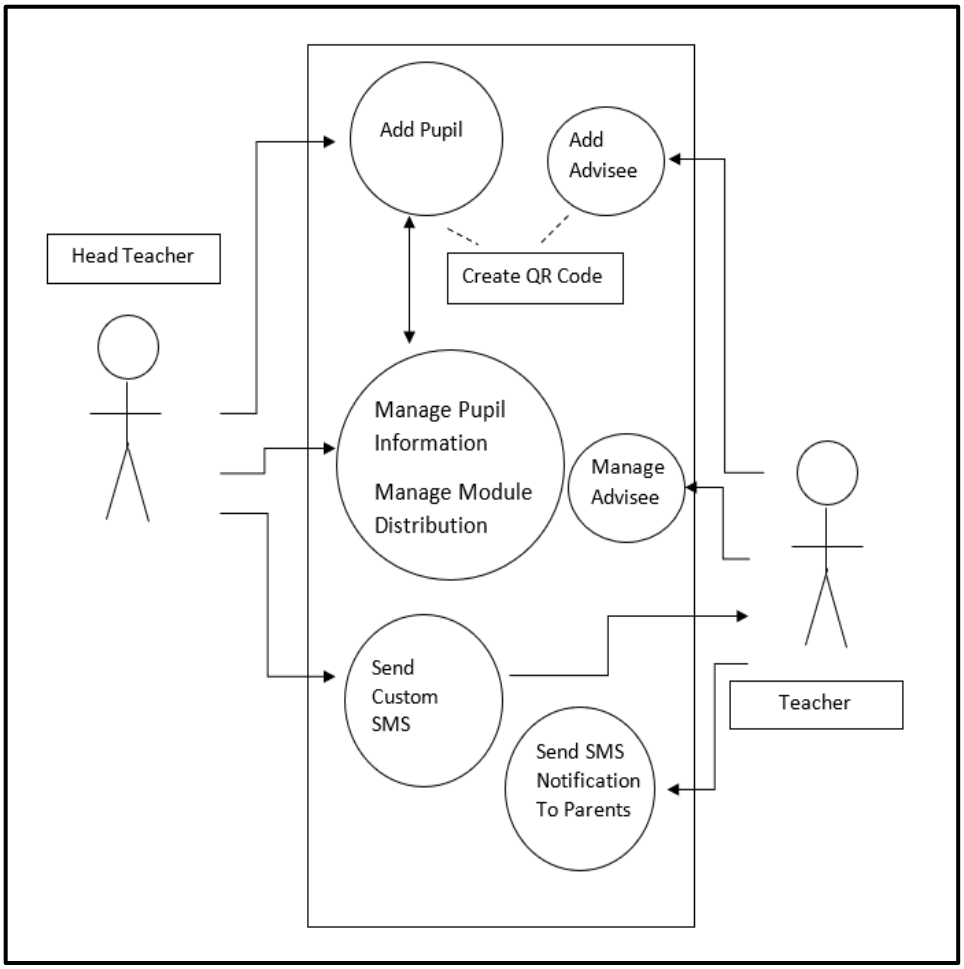


Figure 5. Use Case Diagram of the System

Use Case Narrative

Use case narrative describing a use case that requires both frame context of the use case and represents the dialog between the user (actor or use case) and the use case. In every use case narrative, there are Pre-conditions, Process, and Post-conditions.

Table 3

Use Case 1 Login to the system as head teacher

Log into the system as head teacher	
Scope	Login into the system as head teacher and view functionalities as admin.
Level	User Goal
Goal in Content	To login into the system
Primary Actors	Head Teacher
Stakeholders	Head Teacher and teachers wants to monitor the modules of pupils
Preconditions	The username and password must be correct
Triggers	The Head Teacher must input username and password
Success Guarantee	Success message box will prompt
Scenarios:	1. The head teacher access to the system. 2. The log-in form will show. 3. The head teacher input username and password. 4. The system checks for the username and password if it matches the database record. 5. The system will go to main form.

Table 4

Use Case 2 Login to the system as Teacher faculty

Log-in-to the system as teacher	
Scope	Login into the system and view functionalities as a teacher.
Level	User Goal
Goal in Content	To login into the system
Primary Actors	Teacher
Stakeholders	Teacher wants to monitor the modules of their own advisee
Preconditions	The username and password must be correct
Triggers	The Teacher must input username and password
Success Guarantee	Success message box will prompt
Scenarios:	1.The Teacher access to the system. 2.The log-in form will show. 3.Teacher input username and password. 4.The system checks for the username and password if it matches the database record. 5.The system will only take the teacher to main form of their advisory.

Table 5

Use Case 3 To Add Pupils

To Add Pupils	
Scope	Pupils Module Monitoring System with SMS Notification of Sta. Cruz, Elementary School, Sta. Cruz Sierra Bullones, Bohol
Level	User Goal
Goal in Content	To add pupil
Primary Actors	Head Teacher and Teacher
Stakeholders	Head Teacher and teacher who want to add pupil
Preconditions	Pupils must be present in roster per class.
Triggers	The head and the teacher will fill out the necessary information.
Success Guarantee	Success message will prompt if its successfully added.
Scenarios:	1. The head and the teacher will input the necessary information. 2. The system will check if the information is filled up correctly. 3. Success message will prompt if the pupil is successfully added.

Table 6

Use Case 4 Generation of QR Code

Generation of QR Code	
Scope	To Generate QR Code per module in each pupil every class
Level	User Goal
Goal in Content	Create QR Code for module
Primary Actors	Teacher
Stakeholders	Pupils
Preconditions	Pupils must be added to the roster list for the creation of module
Triggers	Head and the teacher will distribute the QR Code generated
Success Guarantee	Success message box will prompt
Scenarios:	1. The head teacher access to the system. 2. The log-in form will show. 3. The head teacher input username, password. 4. The system checks for the username and password if it matches the database record. 5. The system will go to main form.

Table 7

Use Case 3 Monitoring of Modules Distribution

Monitoring of Modules Distribution	
Scope	To monitor the submission and retrieval of SLM
Level	User Goal
Goal in Content	To monitor the modules of pupils in weekly distribution
Primary Actors	Teacher
Stakeholders	Teacher who wants to monitor the status of modules distribution.
Preconditions	None
Triggers	The teacher will scan the QR code to know that the pupil's accomplish submitting and retrieving of module their module.
Success Guarantee	Receive the module and change the status into claimed.
Scenarios:	1. Teacher will manage the pupil module for checking. 2. The teacher will change the module status to the system. 3. The teacher reviews the module status.

Table 8

Use Case 4 Generation of Reports

Generation of Reports	
Scope	Pupils Module Monitoring System with SMS Notification of Sta. Cruz Elementary School, Sta. Cruz, Sierra Bullones, Bohol
Level	User Goal
Goal in Content	To generate report of weekly modules distributions.
Primary Actors	Head Teacher and Teacher
Stakeholders	Head Teacher, Teacher who want to generate reports for weekly distributions
Preconditions	None
Triggers	The Head Teacher and teacher display the weekly modules.
Success Guarantee	Display the weekly modules and total number of all active pupils.
Scenarios:	1. The head teacher generates for a report for the weekly modules. 2. The head teacher generates reports for active pupils.

Class Diagram

A class diagram in Visual Basic.NET language (VB.NET) Is **a Microsoft object-oriented programming (OOP) language.** It evolves from Visual Basic 6 (VB6) to meet an increasing need for easy web-services and web development VB.Net was designed to take advantage of the. NET framework-based classes and run-time environment.

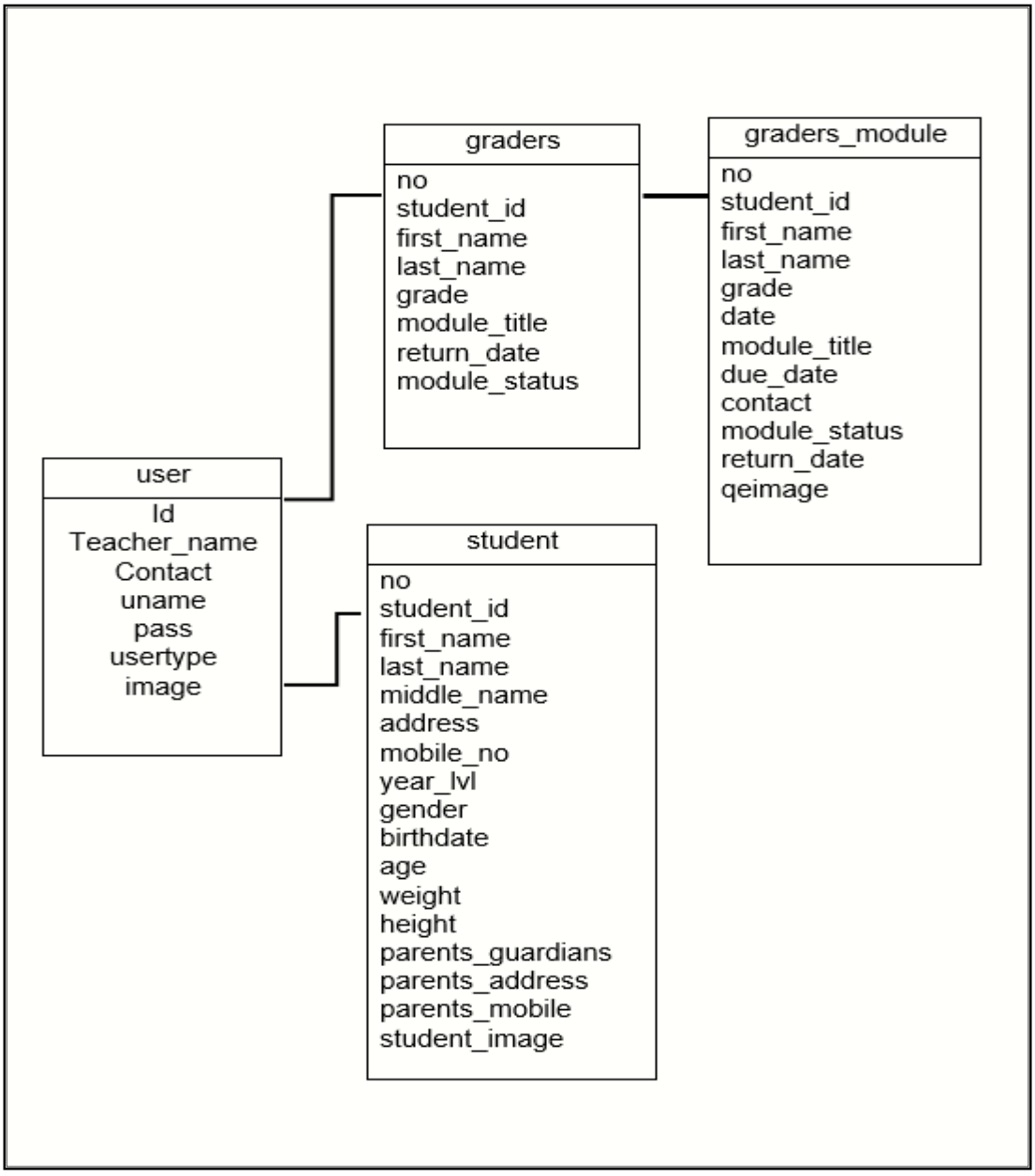


Figure 6. Class Diagram

Data Structure

The following tables are the database tables that used in storing the information that are inputted in the system with a collection of operations that facilitate searching, sorting recombination and similar activities.

Table 9

Data Structure for School Year

Field No.	Field Name	Type	Width	Description
1	Aycode	varchar	20	School year
2	yr1	varchar	10	Year from
3	yr2	varchar	20	Year To

Table 10

Data structure for g1student

Field No.	Field Name	Type	Width	Description
1	NO	Int	20	Student no
2	STUDENT_ID	varchar	20	Student id
3	FIRST_NAME	varchar	30	Student first name
4	LAST_NAME	varchar	30	Last name
5	GRADE	varchar	20	Grade
6	MODULE_TITLE	varchar	30	Module title
7	RETURN_DATE	varchar	30	Return date
8	MODULE_STATUS	varchar	30	Module status

Table 11

Data structure for table g2student

Field No.	Field Name	Type	Width	Description
1	NO	Int	20	Student no
2	STUDENT_ID	varchar	20	Student id
3	FIRST_NAME	varchar	30	Student first name
4	LAST_NAME	varchar	30	Student Last name
5	GRADE	varchar	20	Student Grade
6	GENDER	varchar	20	Student Gender
7	MODULE_TITLE	varchar	30	Student Module title
8	RETURN_DATE	varchar	20	Student Return date
9	MODULE_STATUS	varchar	30	Student Module status

Table 12

Data structure for table g3student

Field No.	Field Name	Type	Width	Description
1	NO	int	20	Student no
2	STUDENT_ID	varchar	20	Student id
3	FIRST_NAME	varchar	30	Student first name
4	LAST_NAME	varchar	20	Student Last name
5	GRADE	varchar	50	Student Grade
6	MODULE_TITLE	varchar	20	Student Module title
7	RETURN_DATE	varchar	30	Student Return date
8	MODULE_STATUS	varchar	20	Student Module status

Table 13

Data structure for table g4student

Field No.	Field Name	Type	Width	Description
1	NO	int	20	Student no
2	STUDENT_ID	varchar	20	Student id
3	FIRST_NAME	varchar	30	Student first name
4	LAST_NAME	varchar	20	Student Last name
5	GRADE	varchar	20	Student Grade
6	MODULE_TITLE	varchar	20	Student Module title
7	RETURN_DATE	varchar	30	Student Return date
8	MODULE_STATUS	varchar	20	Student Module status

Table 14

Data structure for table g5student

Field No.	Field Name	Type	Width	Description
1	NO	int	20	Student no
2	STUDENT_ID	varchar	20	Student id
3	FIRST_NAME	varchar	30	Student first name
4	LAST_NAME	varchar	20	Student Last name
5	GRADE	varchar	20	Student Grade
6	MODULE_TITLE	varchar	20	Student Module title
7	RETURN_DATE	varchar	30	Student Return date
8	MODULE_STATUS	varchar	20	Student Module status

Table 15

Data structure for table g6student

Field No.	Field Name	Type	Width	Description
1	NO	Int	20	Student no
2	STUDENT_ID	varchar	20	Student id
3	FIRST_NAME	varchar	30	Student first name
4	LAST_NAME	varchar	20	Student Last name
5	GRADE	varchar	20	Student Grade
6	MODULE_TITLE	varchar	20	Student Module title
7	RETURN_DATE	varchar	30	Student Return date
8	MODULE_STATUS	varchar	20	Student Module status

Table 16

Data structure for table grade1_module

Field No.	Field Name	Type	Width	Description
1	NO	Int	20	Student no
2	STUDENT_ID	varchar	20	Student id
3	FIRST_NAME	varchar	30	Student first name
4	LAST_NAME	varchar	20	Student Last name
5	GRADE	varchar	20	Student Grade
6	DATE	varchar	20	Date
7	MODULE_TITLE	varchar	20	Student Module title
8	DUE_DATE	date		Student due date
9	CONTACT	varchar	20	Student contact
10	MODULE_STATUS	varchar	20	Student Module status
11	RETURN_DATE	varchar	20	Student Return date
12	QRIMAGE	longblob		Student QR image

Table 17

Data structure for table grade2_module

Field No.	Field Name	Type	Width	Description
1	NO	int	20	Student no
2	STUDENT_ID	varchar	20	Student id
3	FIRST_NAME	varchar	30	Student first name
4	LAST_NAME	varchar	20	Student Last name
5	GRADE	varchar	20	Student Grade
6	DATE	varchar	20	Date

7	MODULE_TITLE	varchar	30	Student Module title
8	DUE_DATE	date		Student due date
9	CONTACT	varchar	20	Student contact
10	MODULE_STATUS	varchar	30	Student Module status
11	RETURN_DATE	varchar	20	Student Return date
12	QRIMAGE	longblob		Student QR image

Table 18

Data structure for table grade3_module

Field No.	Field Name	Type	Width	Description
1	NO	int	20	Student no
2	STUDENT_ID	varchar	20	Student id
3	FIRST_NAME	varchar	30	Student first name
4	LAST_NAME	varchar	20	Student Last name
5	GRADE	varchar	20	Student Grade
6	DATE	varchar	20	Date
7	MODULE_TITLE	varchar	30	Student Module title
8	DUE_DATE	varchar	20	Student due date
9	CONTACT	varchar	20	Student contact
10	MODULE_STATUS	varchar	30	Student Module status
11	RETURN_DATE	varchar	20	Student Return date
12	QRIMAGE	longblob		Student QR image

Table 19

Data Structure for table grade4_module

Field No.	Field Name	Type	Width	Description
1	NO	int	20	Student no
2	STUDENT_ID	varchar	20	Student id
3	FIRST_NAME	varchar	30	Student first name
4	LAST_NAME	varchar	20	Student Last name
5	GRADE	varchar	20	Student Grade
6	DATE	varchar	20	Date
7	MODULE_TITLE	varchar	30	Student Module title
8	DUE_DATE	date		Student due date
9	CONTACT	varchar	30	Student contact
10	MODULE_STATUS	varchar	30	Student Module status
11	RETURN_DATE	varchar	20	Student Return date
12	QRIMAGE	longblob		Student QR image

Table 20

Data structure for table grade5_module

Field No.	Field Name	Type	Width	Description
1	NO	int	20	Student no
2	STUDENT_ID	varchar	20	Student id
3	FIRST_NAME	varchar	30	Student first name
4	LAST_NAME	varchar	20	Student Last name
5	GRADE	varchar	20	Student Grade
6	DATE	varchar	20	Date
7	MODULE_TITLE	varchar	30	Student Module title
8	DUE_DATE	date		Student due date
9	CONTACT	varchar	30	Student contact
10	MODULE_STATUS	varchar	30	Student Module status
11	RETURN_DATE	varchar	20	Student Return date
12	QRIMAGE	longblob		Student QR image

Table 21

Data structure for table grade6_module

Field No.	Field Name	Type	Width	Description
1	NO	Int	20	Student no
2	STUDENT_ID	varchar	20	Student id
3	FIRST_NAME	varchar	30	Student first name
4	LAST_NAME	varchar	20	Student Last name
5	GRADE	varchar	20	Student Grade
6	DATE	varchar	20	Date
7	MODULE_TITLE	varchar	30	Student Module title
8	DUE_DATE	Date		Student due date
9	CONTACT	varchar	30	Student contact
10	MODULE_STATUS	varchar	30	Student Module status
11	RETURN_DATE	varchar	20	Student Return date
12	QRIMAGE	longblob		Student QR image

Table 22

Data structure for table kinder student

Field No.	Field Name	Type	Width	Description
1	NO	Int	20	Student no
2	STUDENT_ID	varchar	20	Student id
3	FIRST_NAME	varchar	30	Student first name
4	LAST_NAME	varchar	20	Student Last name
5	GRADE	varchar	20	Student Grade
6	MODULE_TITLE	varchar	20	Student Module title
7	RETURN_DATE	varchar	30	Student Return date
8	MODULE_STATUS	varchar	20	Student Module status

Table 23

Data structure for table kinder module

Field No.	Field Name	Type	Width	Description
1	NO	int	20	Student no
2	STUDENT_ID	varchar	20	Student id
3	FIRST_NAME	varchar	30	Student first name
4	LAST_NAME	varchar	20	Student Last name
5	GRADE	varchar	20	Student Grade
6	DATE	varchar	20	Date
7	MODULE_TITLE	varchar	30	Student Module title
8	DUE_DATE	date		Student due date
9	CONTACT	varchar	30	Student contact
10	MODULE_STATUS	varchar	30	Student Module status
11	RETURN_DATE	varchar	20	Student Return date
12	QRIMAGE	longblob		Student QR image

Table 24

Data structure for table pupil

Field No.	Field Name	Type	Width	Description
1	NO	int	20	Student no
2	STUDENT_ID	varchar	20	Student id
3	LAST_NAME	varchar	20	Student Last name
4	FIRST_NAME	varchar	30	Student first name
5	MIDDLE_NAME	varchar	20	Student middle name

6	ADDRESS	varchar	50	Student Address
7	MOBILE_NUMBER	varchar	20	Student mobile number
8	YEAR_LEVEL	varchar	10	Student year level
9	GENDER	varchar	10	Student gender
10	BIRTH_DATE	date		Student birth date
11	AGE	int	10	Student age
12	WEIGHT	float		Student weight
13	HEIGHT	float		Student height
14	PARENTS_GUARDIAN	varchar	50	Stud Parents Guardian
15	PARENTS_ ADDRESS	varchar	30	Stud Parents Address
16	PARENTS_ MOBILE	varchar	20	Stud Parents mobile
17	STUDENT_IMAGE	longblob		Student Image

Table 25

Data structure for table user

Field No.	Field Name	Type	Width	Description
1	ID	int	11	User ID
2	TEACHER_NAME	varchar	30	Teacher name
3	CONTACT	varchar	30	User contact
4	UNAME	varchar	50	User name
5	PASS	varchar	20	User pass
6	USERTYPE	varchar	50	User type
7	IMAGE	longblob		User Image

Program Hierarchy

A program hierarchy is an organizational structure in which items is ranked according to levels of importance. Each module is represented by a box, which contains the modules. The system comprises of nine buttons representing main modules that hold the activity that the system is capable of. Submenus is also presented in each menu provided (Wigmore, I., 2012).

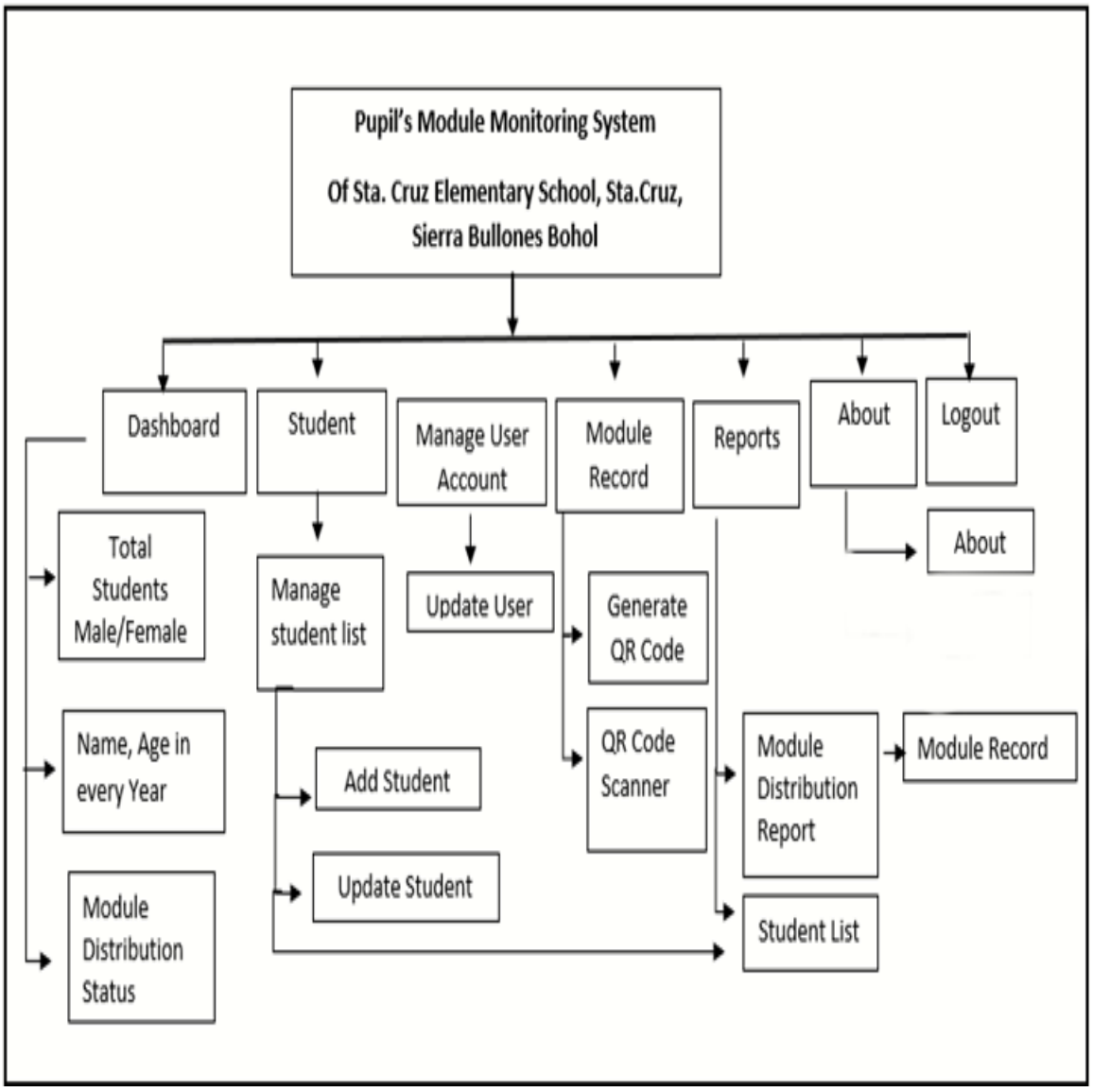


Figure 7. Program Hierarchy

Functional Requirements

A functional requirement defines a function of a system or its component. A function is described as a set of inputs, the behavior, and outputs. Functional requirements maybe calculations, technical details, data manipulation and processing and other specific functionality that define what a system is supposed to accomplish. The functionalities mentioned are based from the existing standard

requirements of the monitoring system with the approval and coordination from the respondents, as follows:

Login Process

FREQ 1: Access to the system must be password protected.

FREQ 2: Access to the system must have username and password.

FREQ 3: The system will only let the head teacher of Sta. Cruz Elementary School to have full access.

Process of Adding Pupil

FREQ 4: The system should allow every user to log in.

FREQ 5: The system should allow every teacher to add pupil for the creation of QR Code limited only to their advisory.

Updating Pupil Information Process

FREQ 6: The system should allow every teacher to change every information of pupil in their advisory.

Managing of module distribution

FREQ 7: The system should allow the teacher to create QR Code in their advisory.

FREQ 8: The system should allow the teacher to scan only their advisory QR Code.

FREQ 9: The system will only allow the teacher to record the submission and retrieval of SLM only limited in their own advisory.

FREQ 10: The system will only allow the teacher to view module distribution records of pupil in their advisory.

FREQ 11The system will should allow to send SMS notification for submission and retrieval of SLM to their advisory contact information.

FREQ 12:The system should only allow the teachers to search pupil in their advisory.

FREQ 13:The system should allow the head teacher to have full access in every pupil of Sta. Cruz Elementary School module distribution records.

FREQ 14:The system should allow the head teacher/ teachers to monitor the reports, and the information of module distribution created by the system.

FREQ 15:The system should allow the head teacher/ teachers to monitor the summary of information gathered in the module distribution that is presented in the dashboard which can be fully view in the module distribution records, this contains the list of claimed, unclaimed, lacking of SLM.

FREQ 16:The system should allow the teacher to notify the parents via SMS for the concern of their child's SLM.

Process of Generation of Reports

FREQ 14: The system should provide the list of pupils who is recorded in the system.

FREQ 15: The system should provide list of pupils who didn't submit and retrieve their SLM.

NON-FUNCTIONAL REQUIREMENTS

A non-functional requirement is a set of criteria that can be used to evaluate the operation system. Instead of specific behavior Functional requirements, on the other hand, describe specified behavior of functions. The system should be simple to use.

NFREQ 16: The system should be easy to use in Local Area Network Scheme.

NFREQ 17: The system should be user friendly and free from errors.

Test Cases

A test case is asset of conditions or variables under which a tester will determine whether an application or software system is working correctly or not, a detailed procedure that fully test a feature or an aspect of a feature. It is also a set of input values, execution preconditions, expected result and executions, developed for a particular objective or test conditions, such as to exercise a particular program path or to verify compliance with a specific requirement.

This are the test case scenarios conducted during the acceptance testing. The test plan is to let the users used the system and follow the instructions in each test case of the developed system. The system should perform the expected result in each test case in order to be considered successful.

The following are the details of each test case:

Test Case 1:

Module: Login Form

Instructions:

1. On the log in form type select user then enter username and password.
2. System will prompt the error message if the username and password are incorrect.
3. Input the correct username and password. Then click the option “Login” button.

Expected Result:

- Main form will show after the loading screen

Test Case 2:

Module: Adding pupil for module distribution

Instructions:

1. On the main menu, click “Add Pupil”
2. Fill up the required information of students
3. Then click “Save”

Expected Result:

1. Message will display “successfully saved”
2. pupil will be saved to list of pupils

Test Case 3:

Module: Create QR Code

Instructions:

1. In the module title select what week is the module.

2. Choose due data
3. In the DataGrid below select the student
4. Click generate QR Code

Expected Results:

1. The QR Code will be save in the Module QR folder.

Test Case 4:

Module: QR Code Scanner

Instructions:

1. On the QR Code scanner the click” start camera” align the QR Code in the scanner
2. Enter the module No
3. Insert image
4. Click “select module status”

Expected Results:

1. Read the QR code details and display it in the form.
2. If the scanner can’t read the QR, enter the module no. or click insert image to read the module details.
3. The module will be saved in the module records.

Test Case 5:

Module: Reports

1. Click “pupils list”

2. Click “Module Records”

Expected Results:

1. View the list of pupils and print.
2. View the module records and print.

Test Case 6:

Module: Send SMS notification to parents

1. Click module records
2. Insert first the broadband stick
3. In the DataGrid click” message icon”
4. Confirmation will prompt, check in the top left corner if it’s displayed connected.
5. Click “ok “to confirm

Expected results:

1. If broadband is disconnected message will prompt” unable to send message.
2. If connected message says successful.

Test Case 7:

Module: Monitoring

1. Click “Module Records”
2. Click “Claimed Records”
3. Click “Unclaimed Records”
4. Click “Notify Parents/Guardians”

Expected Results:

1. View the module distribution records.
2. View the claimed records.
3. View the unclaimed records.
4. Can send notifications to Parents/Guardians.

Technical Requirements

The proper selection of hardware and software components, as well as identification of people involved in the operation and network, are identified.

Hardware components refer to the physical parts of the computer. This includes the motherboard, processor, random access memory, and hard disk.

Software is the general name given to all programs, documentation, manuals, and routines necessary to make the computer usable. It is a set of machine-readable instructions.

People ware refers to those who operate the system. The person-in-charge in the operating system is the head teacher and faculty of SCES and must be computer literate and have a piece of knowledge about the system.

A network is a system of interconnected electric components or circuits. It connects two or more computers or other devices.

Minimum Hardware Specification

This covers the minimum hardware specification needed by the system to function properly as intended and expected. The consideration of these

specification was based on what is available in the market and what most computer package system offers.

Component	Specification
Microprocessor	Intel Pentium, 1.6 Ghz
Hard Disk Drive	500 Gigabytes
Random Access Memory	4 Gigabytes, DDR3

Minimum Software Specification

The Pupil's Module Monitoring System with SMS notification of Sta. Cruz Elementary, School requires various software to function properly. This software was enumerated below with its corresponding specifications of the computer units utilized during the development of the system.

Components	Specification
Windows Operating System	Windows 8, 8.1, 10
Bunifu Framework	Bunifu Version 1.0

Economic Performance Evaluation

The economic performance of the Pupil's Module Monitoring System with SMS notification of Sta.Cruz Elementary School evaluated in terms of initial investment and annual operating cost. The initial investment is the amount required by the client before the commencement of the operation and implementation of the system. On the other hand, the annual operating cost is the total amount required in one year of implementation. This includes office supplies. The table below presents the required investment and annual operating cost in the adoption of the system. Based on the result of the analysis, adopting the system requires a total amount of P89,798.00 for the first year of implementation.

The estimated amount would provide an idea to the client whether to adopt the computerization for human resource records management system or not.

Table 26

Initial Investment and annual Operating Cost

Item	Qty	Unit	Unit Price	Total
A. Initial Investment				
1. Hardware				
Laptop	6	Pieces	₱ 24,000.00	₱ 144,000.00
Printer	1	Pieces	₱ 7,500.00	₱ 7,500.00
Printer Link	4	Pieces	₱ 350.00	₱ 1,400.00
RJ45	3	Pieces	₱ 10.00	₱ 30.00
Hub Switch	1	Pieces	₱ 2,500.00	₱ 2,500.00
UTP Cable	9	Meters	₱ 12.00	₱ 72.00
			Sub-total	**₱ 155,502.00**
2. Software				
Software Licensing			₱ 8,000.00	₱ 8,000.00
Software Installation			₱ 1,000.00	₱ 1,000.00
			Sub-total	**₱ 9,000.00**
			Total Initial Investment Cost	**₱ 89,532.00**
B. Annual Operating Cost				
1. School Supplies				
Bond paper	1	Reams	₱ 400.00	₱ 400.00
Ball Pen	3	Pieces	₱ 8.00	₱ 16.00
Stapler	1	Pieces	₱ 90.00	₱ 90.00
2. UTILITIES				
Electricity	12	Months	₱ 230.00	₱ 2,760.00
			Total Annual Operating Cost	**₱3,266.00**

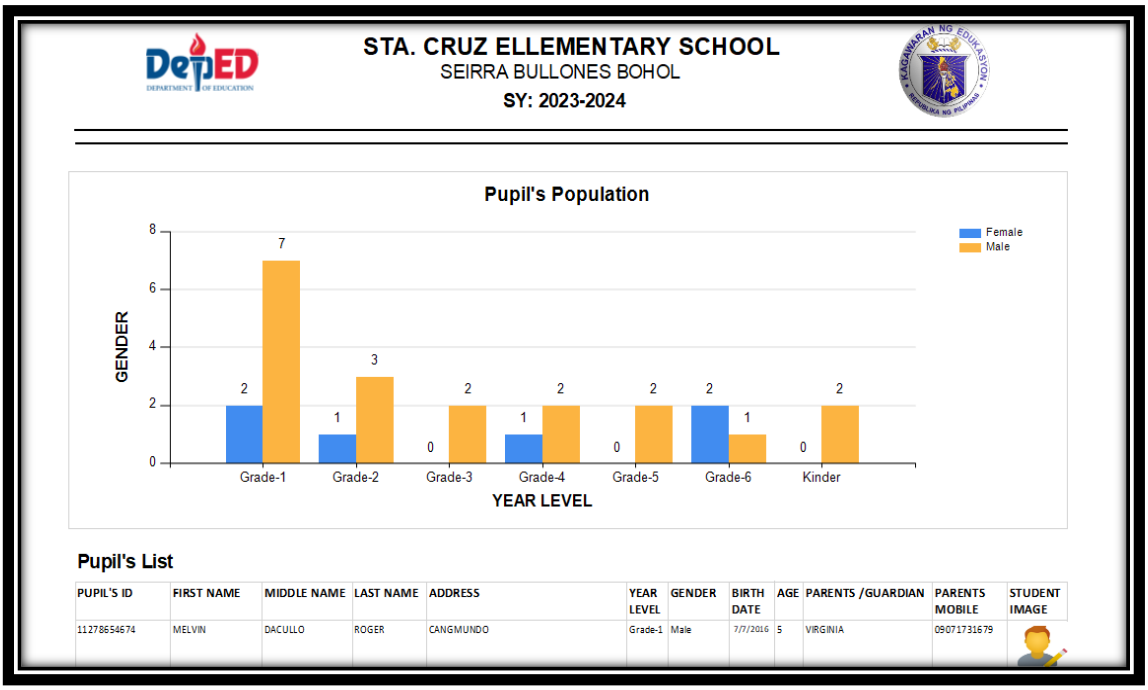
Business Intelligence

Business Intelligence is the set of techniques and tools for the transformation of raw data into meaningful and useful information for business analysis purposes. It means the ability of an organization to collect, maintain, and organized knowledge. It aims to support better business techniques and decision making with solutions that take business intelligence to a whole new level and

getting the right information. The system used tabular and graphical type of business intelligence reporting.

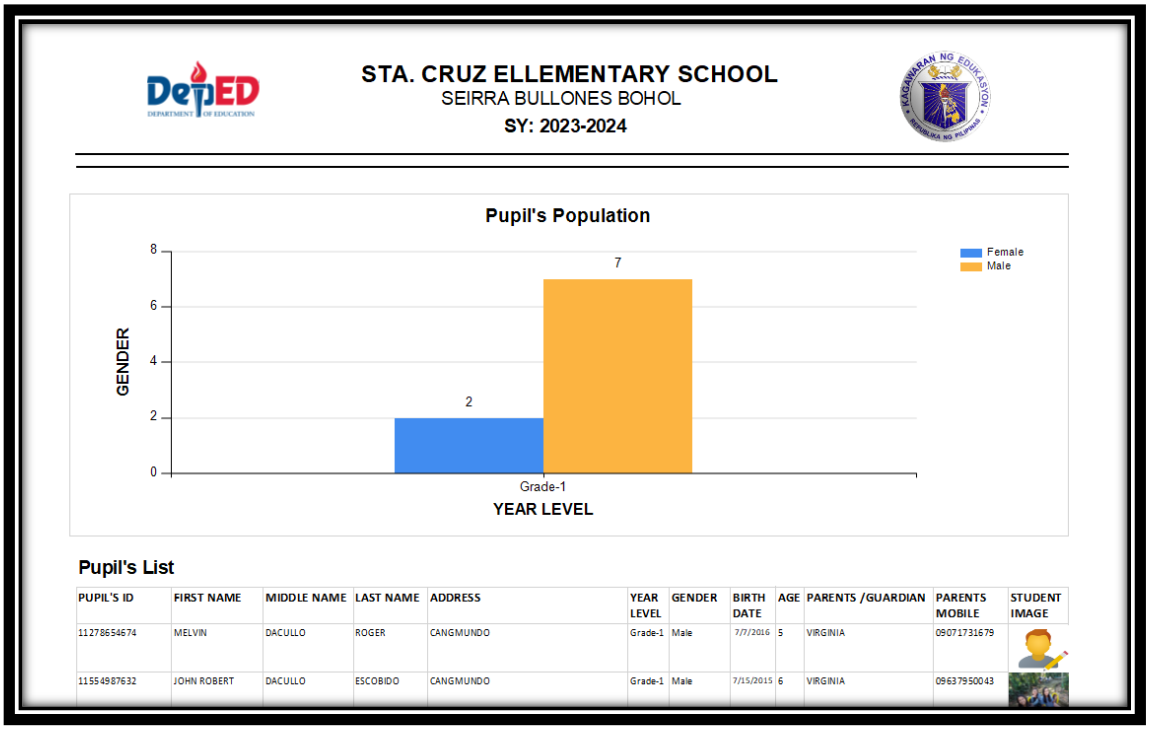
It represents the tools and systems that play a key role for better business techniques and decision making. It serves as an aid in decision making. The system used a statistical type of business intelligence reporting. The system integrated Business Intelligence specifically in the inquiring and reporting component. The system integrated business intelligence specifically in the query and reporting component. This ensures the accuracy of the consistency of the data in the report. All the reports below can be retrieved in a timely manner. Each report is generated by joining more than one table in the connectivity of databased. This ensures the accuracy and consistency of the data in the report. This are pupil list weekly module distribution as required output of the system.

This preview shows the Pupils List Report in all Grade level



Preview 1. Pupils List in all Grade Level

This preview shows the Pupil's list Report in Grade 1



STA. CRUZ ELLEMENTARY SCHOOL
SEIRRA BULLONES BOHOL
SY: 2023-2024

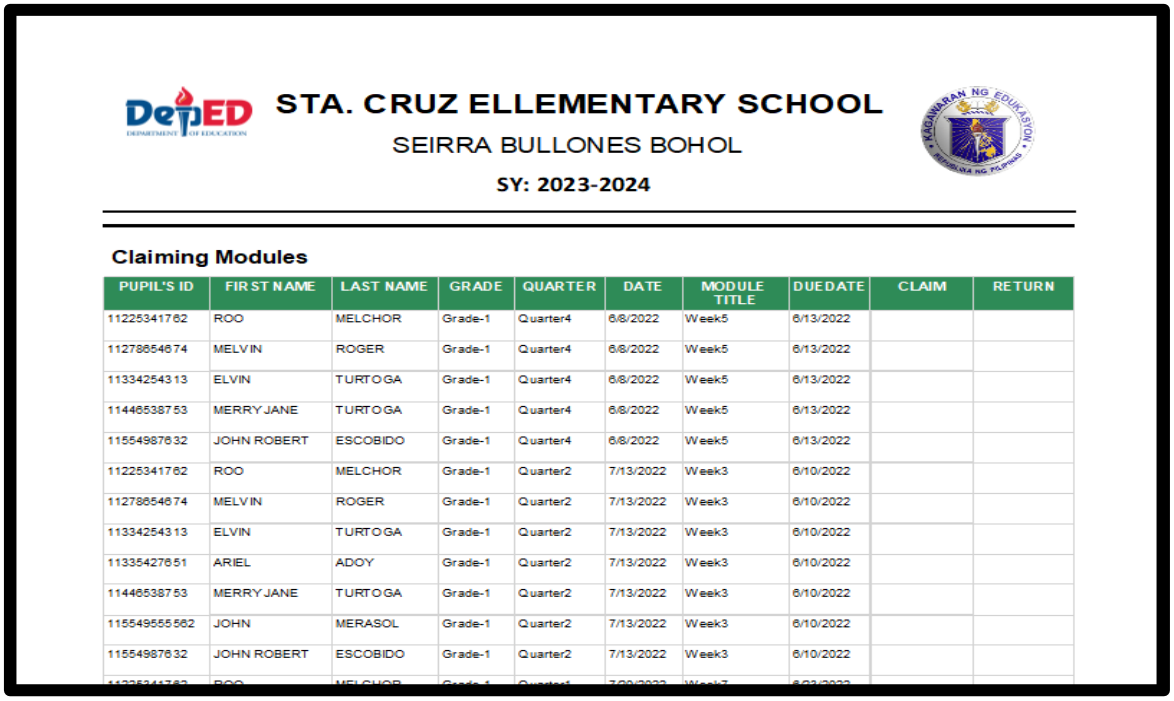
Pupil's Population

Pupil's List

PUPIL'S ID	FIRST NAME	MIDDLE NAME	LAST NAME	ADDRESS	YEAR LEVEL	GENDER	BIRTH DATE	AGE	PARENTS /GUARDIAN	PARENTS MOBILE	STUDENT IMAGE
11278654674	MELVIN	DACULLO	ROGER	CANGMUNDO	Grade-1	Male	7/7/2016	5	VIRGINIA	09071731679	
11554987632	JOHN ROBERT	DACULLO	ESCOBIDO	CANGMUNDO	Grade-1	Male	7/15/2015	6	VIRGINIA	09637950043	

Preview 2. Grade 1 Pupils Report

This preview shows the Module Distribution Report



STA. CRUZ ELLEMENTARY SCHOOL
SEIRRA BULLONES BOHOL
SY: 2023-2024

Claiming Modules

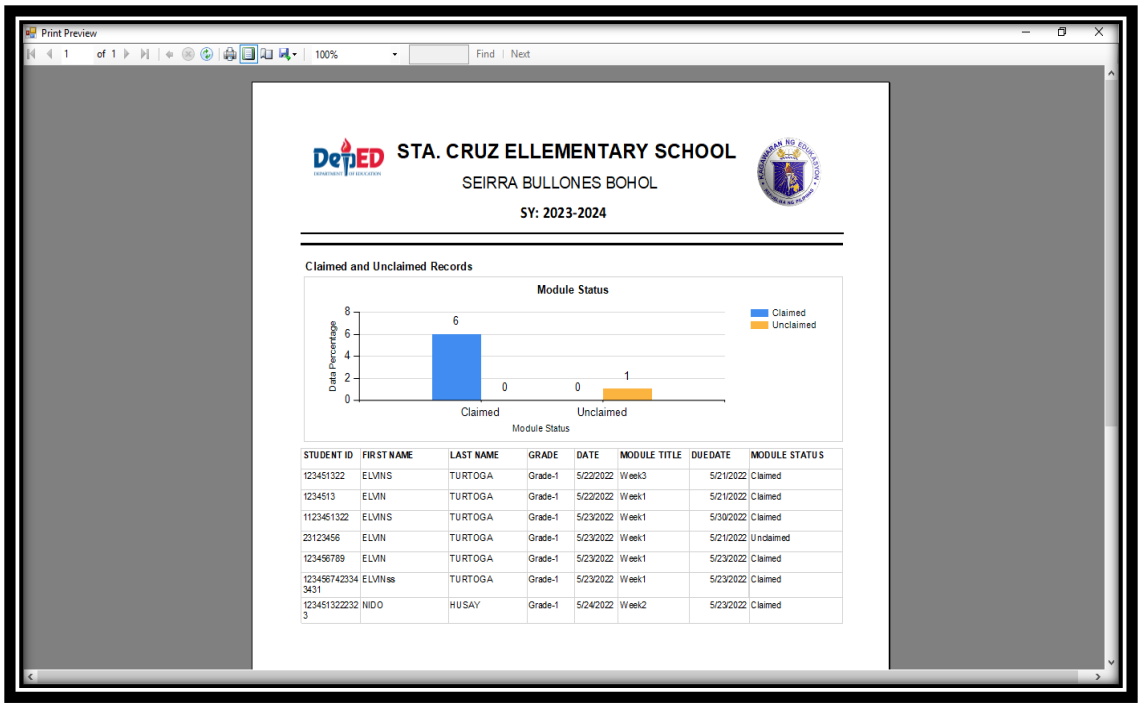
PUPIL'S ID	FIRST NAME	LAST NAME	GRADE	QUARTER	DATE	MODULE TITLE	DUEDATE	CLAIM	RETURN
11225341762	ROO	MELCHOR	Grade-1	Quarter4	6/8/2022	Week5	6/13/2022		
11278654674	MELVIN	ROGER	Grade-1	Quarter4	6/8/2022	Week5	6/13/2022		
11334254313	ELVIN	TURTOGA	Grade-1	Quarter4	6/8/2022	Week5	6/13/2022		
11446538753	MERRY JANE	TURTOGA	Grade-1	Quarter4	6/8/2022	Week5	6/13/2022		
11554987632	JOHN ROBERT	ESCOBIDO	Grade-1	Quarter4	6/8/2022	Week5	6/13/2022		
11225341762	ROO	MELCHOR	Grade-1	Quarter2	7/13/2022	Week3	6/10/2022		
11278654674	MELVIN	ROGER	Grade-1	Quarter2	7/13/2022	Week3	6/10/2022		
11334254313	ELVIN	TURTOGA	Grade-1	Quarter2	7/13/2022	Week3	6/10/2022		
11335427651	ARIEL	ADOY	Grade-1	Quarter2	7/13/2022	Week3	6/10/2022		
11446538753	MERRY JANE	TURTOGA	Grade-1	Quarter2	7/13/2022	Week3	6/10/2022		
11554955562	JOHN	MERASOL	Grade-1	Quarter2	7/13/2022	Week3	6/10/2022		
11554987632	JOHN ROBERT	ESCOBIDO	Grade-1	Quarter2	7/13/2022	Week3	6/10/2022		

Preview 3. Module Distribution Report

This preview shows the QR codes

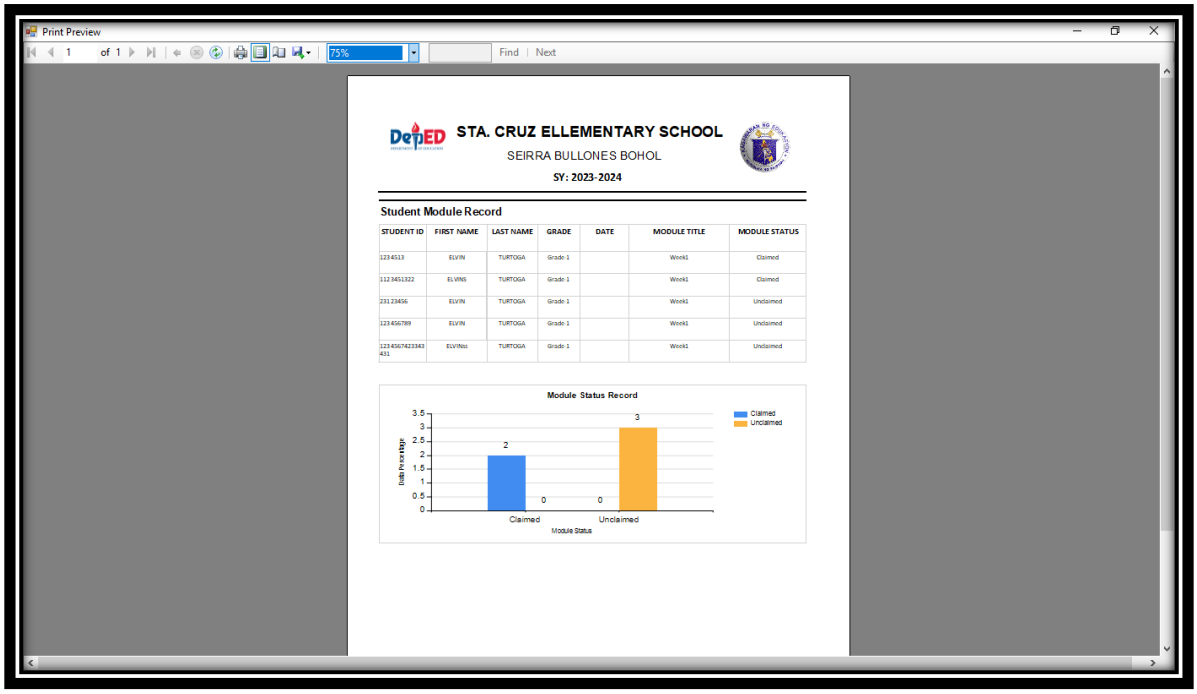
Preview 4. QR Code Report

The preview shows the Graphical Claimed and Unclaimed Records form



Preview 5. Graphical Claimed and Unclaimed Records Display

The preview shows the Printing Student Module Records form



Preview 6. Printing Pupils Module Records Display

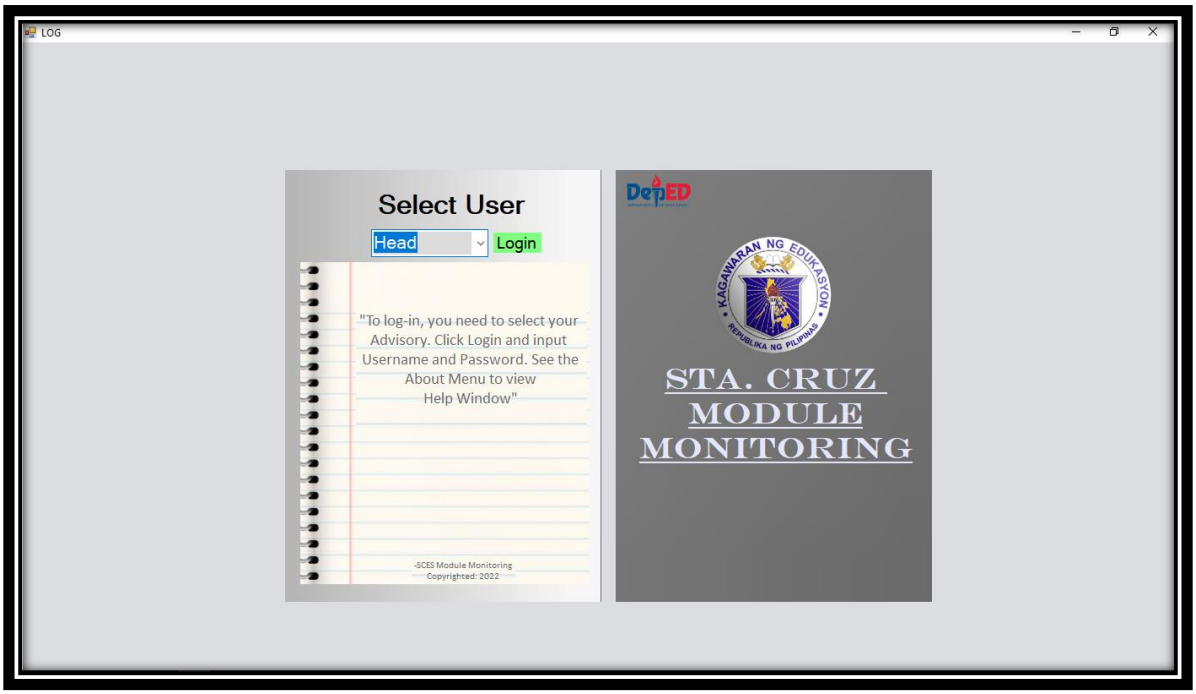
Screen Layout

The Screen layout describes the design of graphical user interfaces. It includes a wide variety of applications where screens or displays can be used as part of human-machine interaction and should be distinguished from the functions of a graphical user interface" (ryte.com, 2020). Screen Layout is one of the many attributes of the system's user-friendliness. It should be designed in such a way to navigate the system quickly, easily, and it should provide clear recognition of the task of the users need to perform.

The preview shows the Log in form for Head Teacher and Faculty form.

Preview 7. Log in form for Head Teacher and Teacher display

The preview shows the Select User form

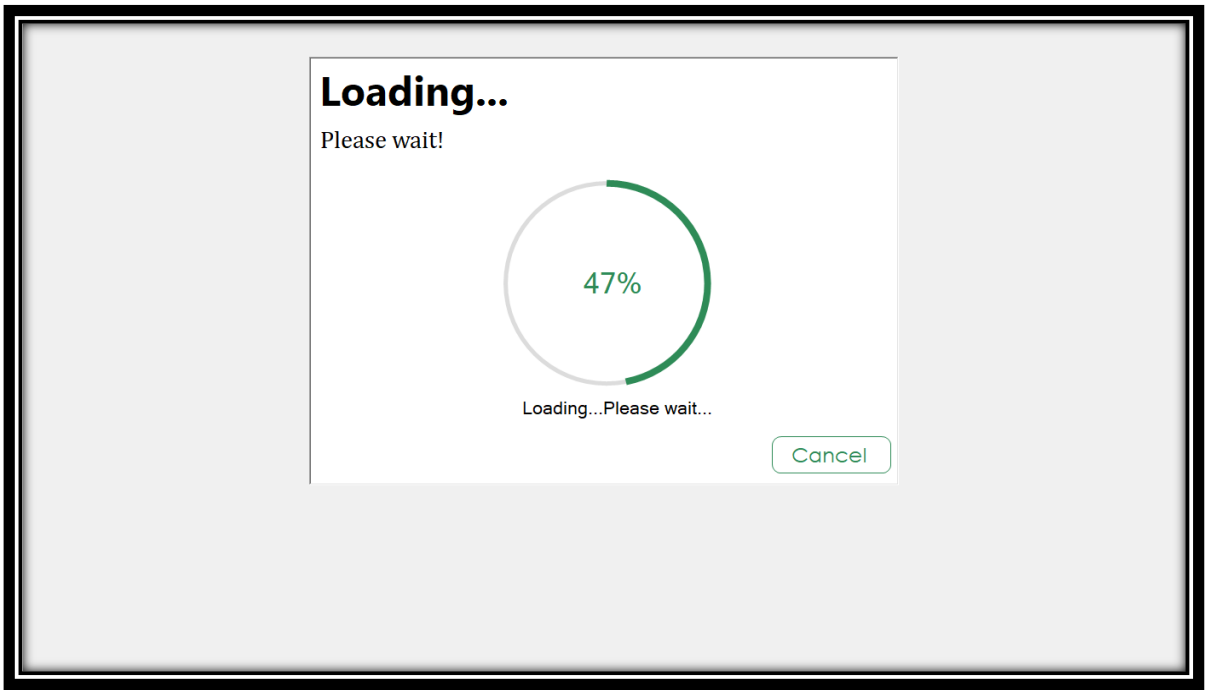


Preview 8. Select User Display

The preview shows the Change of Password for users form

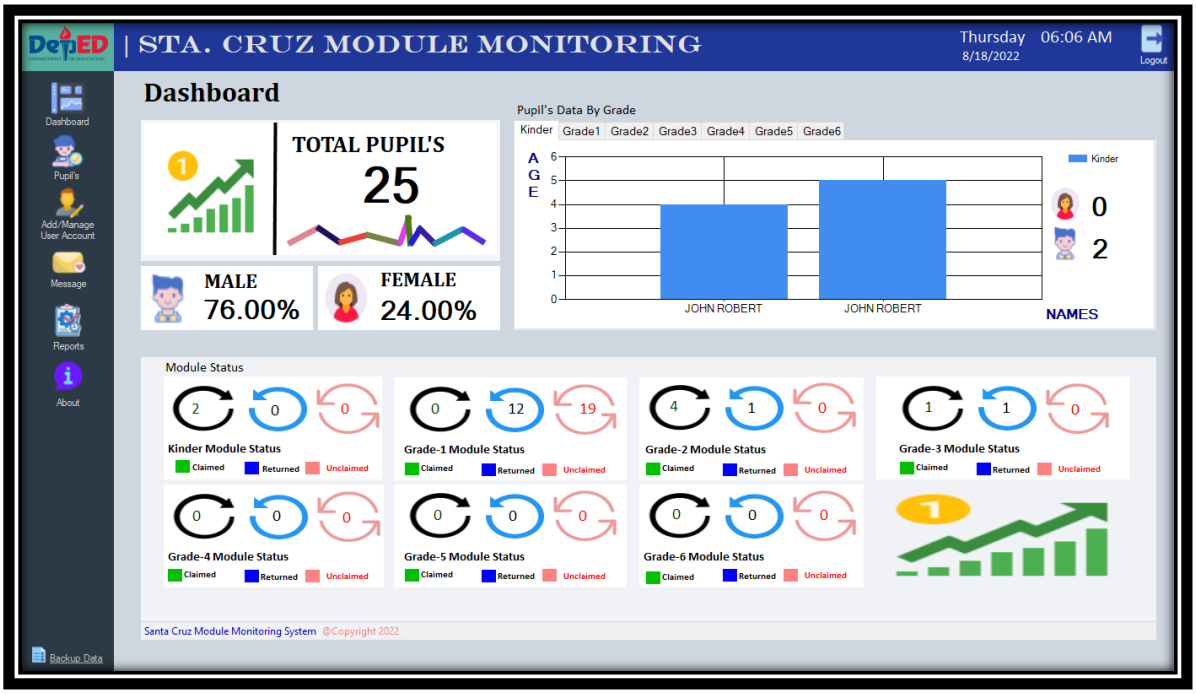
Preview 9. Change of Password for users Display

The preview shows the Loading Animation form



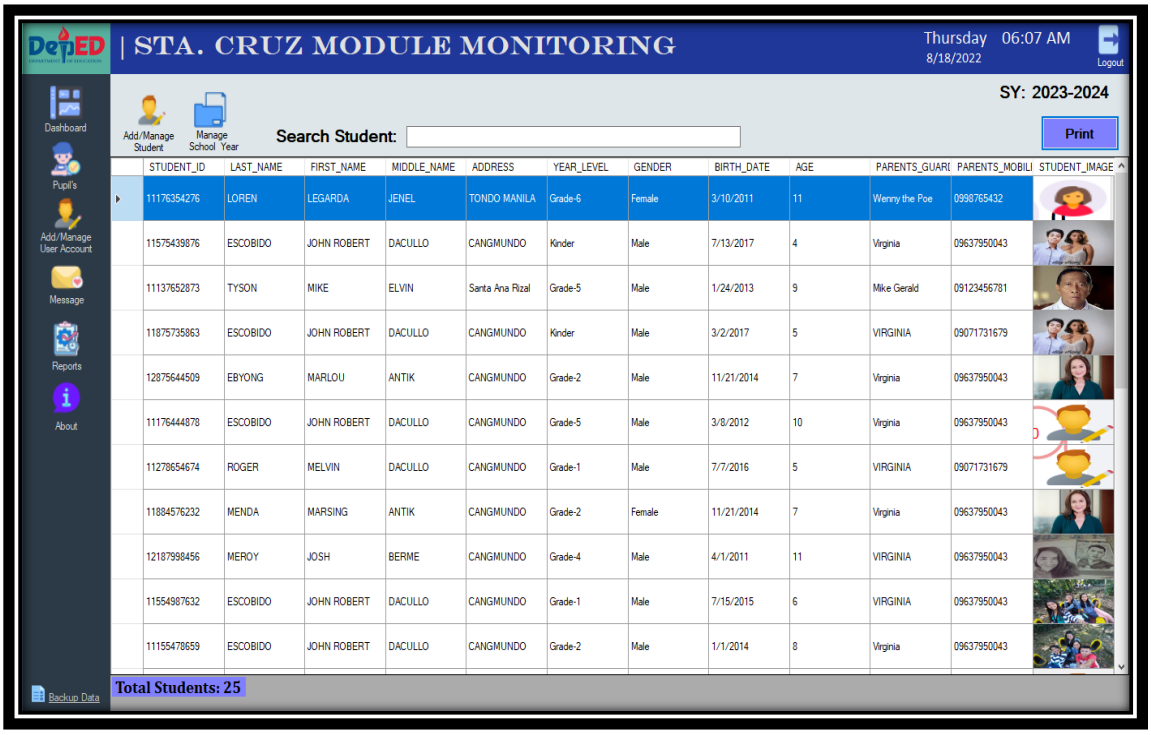
Preview 10. Loading Animation Display

The preview shows the Admin Dashboard form



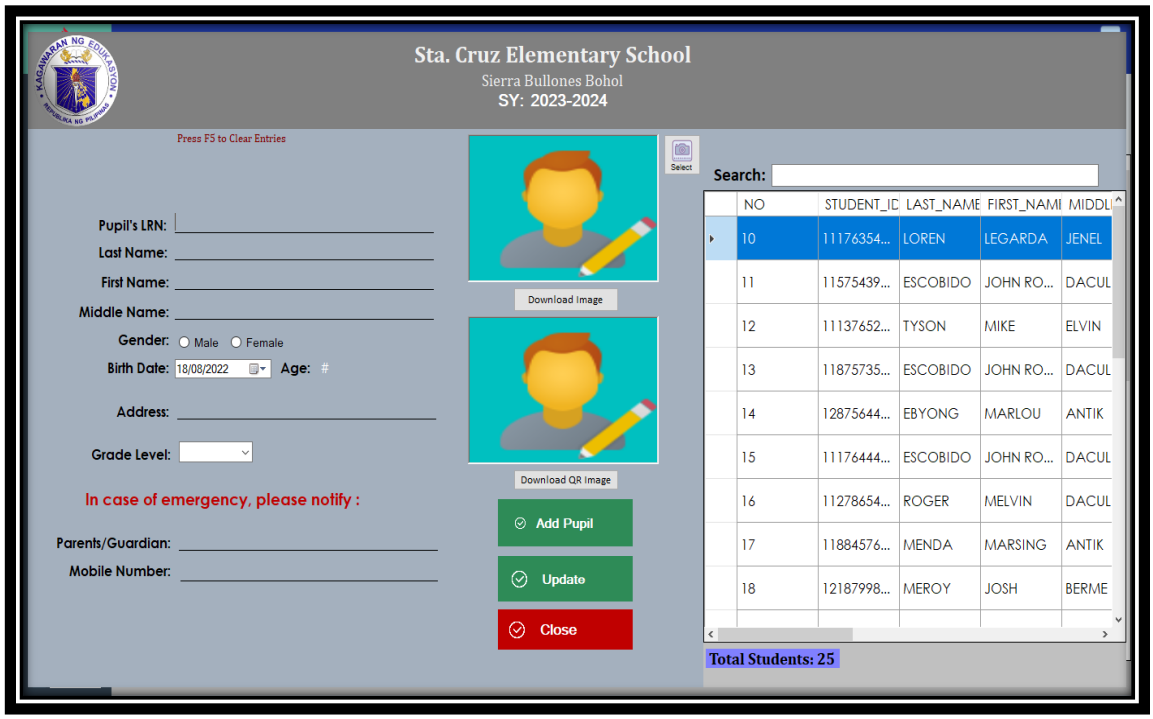
Preview 11. Admin Dashboard Display

The preview shows the Admin View of Pupils List form



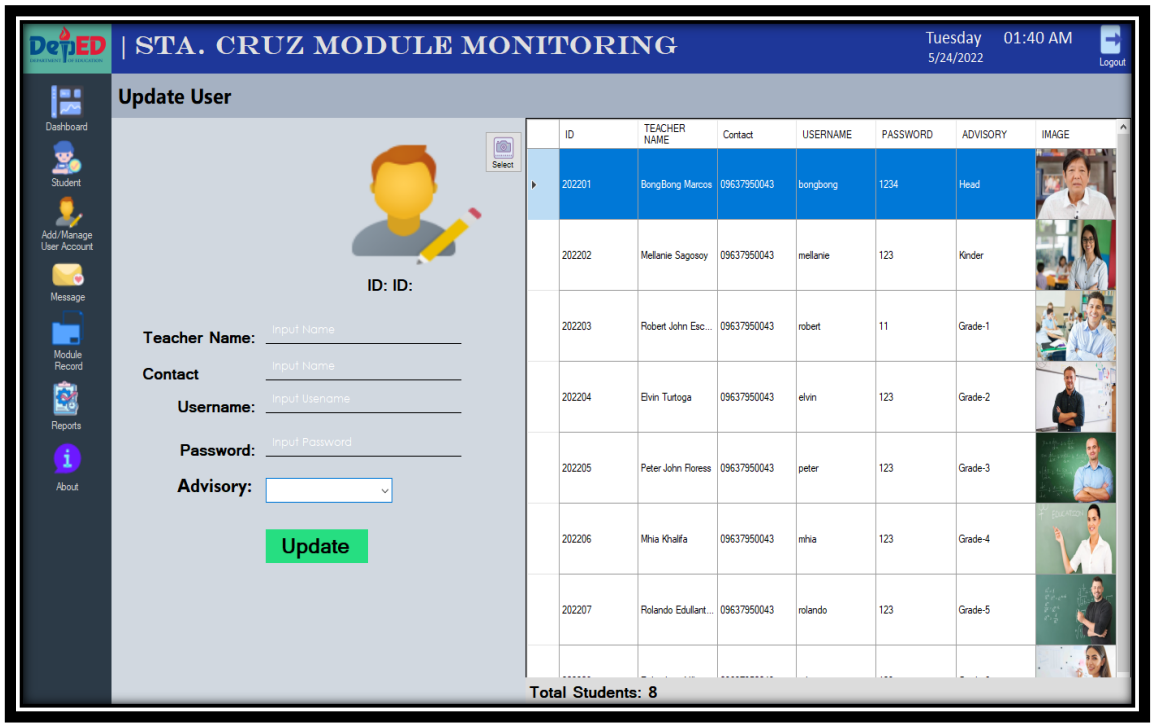
Preview 12. Admin View of Pupils List Display

The preview shows the Add/Update Pupils form



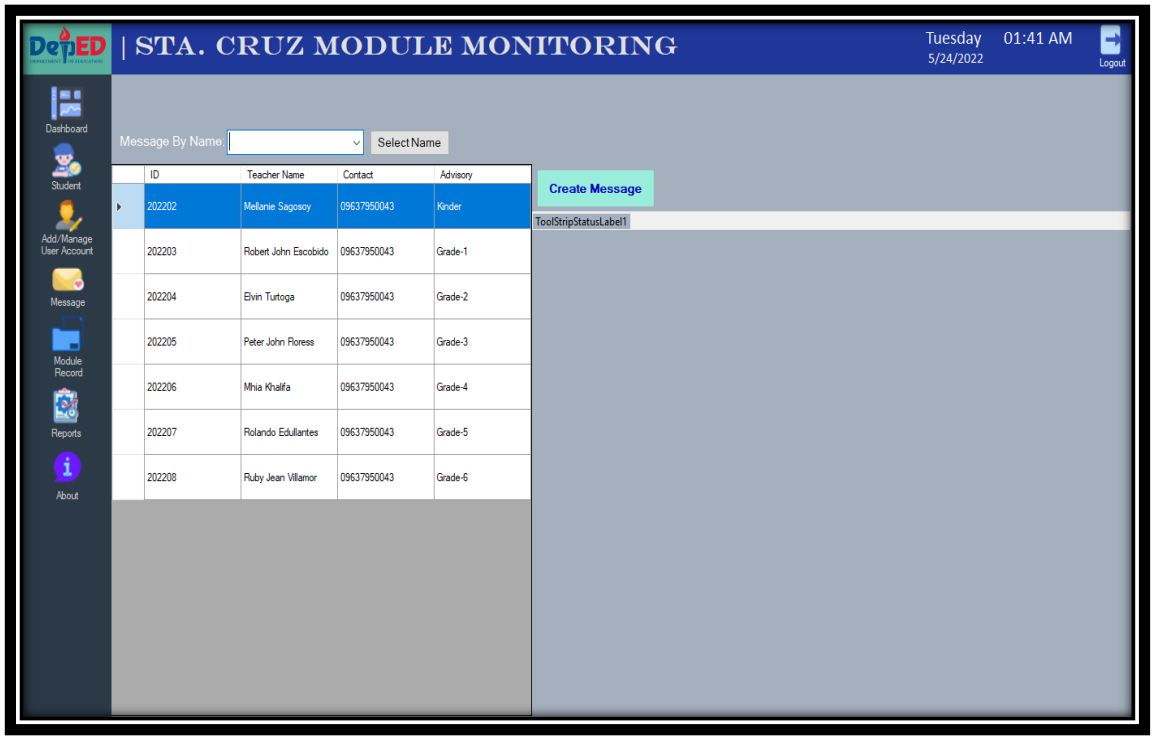
Preview 13. Add/Update Pupils Display

The preview shows the Admin Manage/Update User Account form



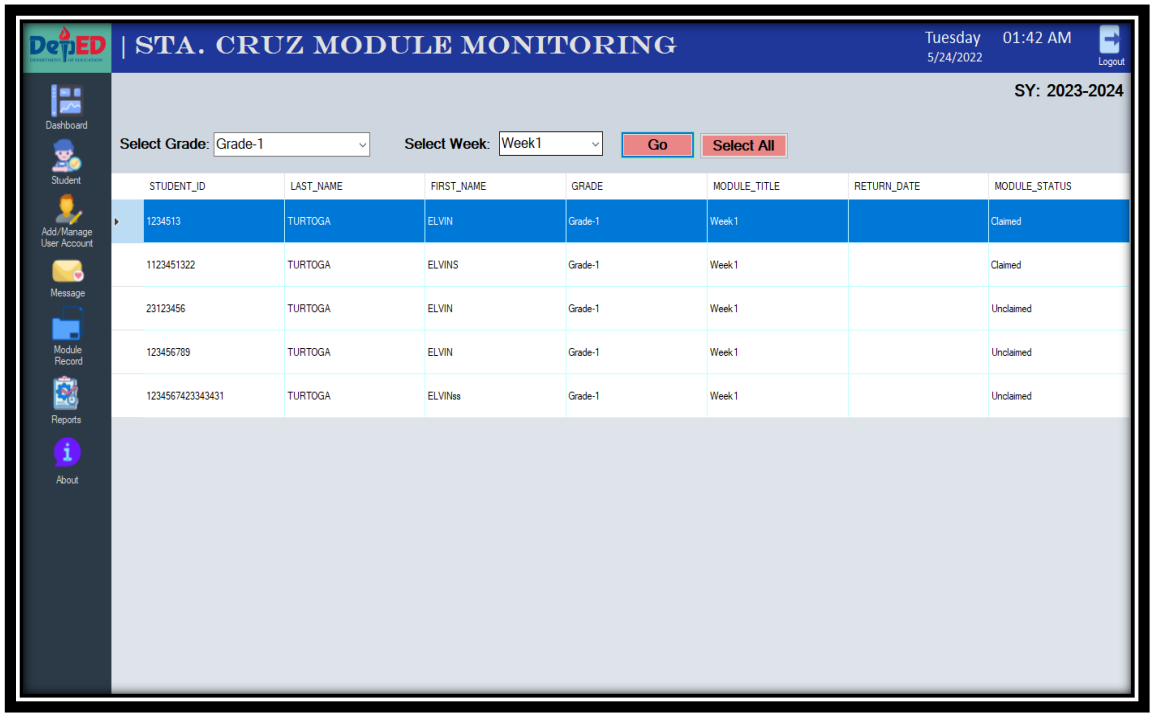
Preview 14. Admin Manage/Update User Account Display

The preview shows the Admin Message Notification form



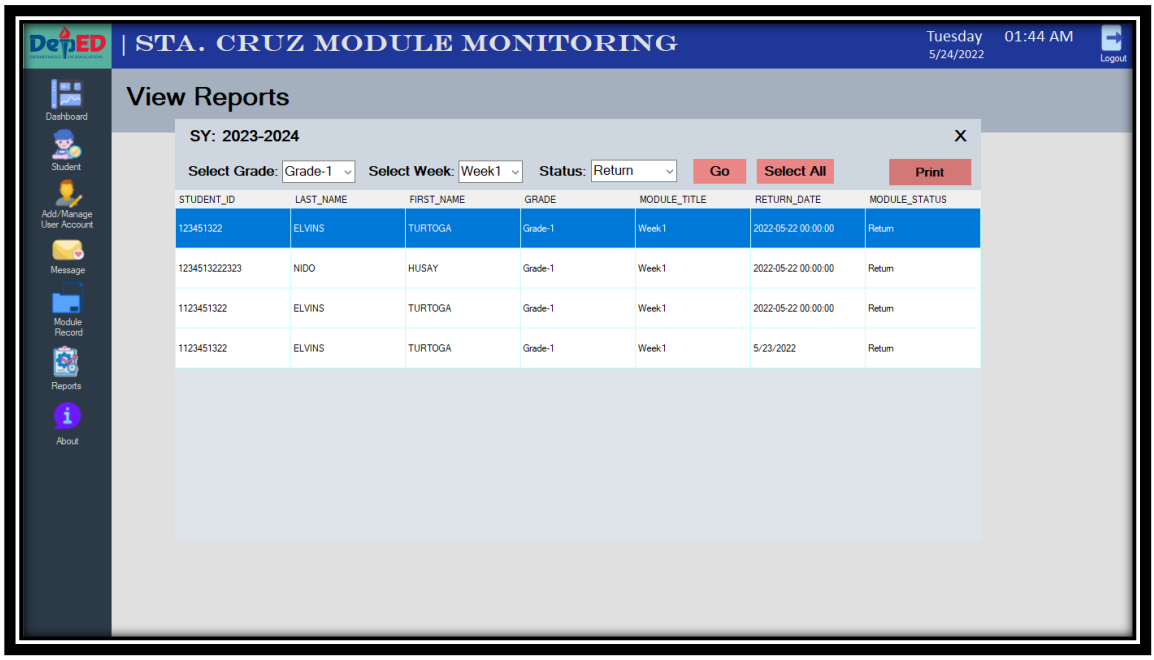
Preview 15. Admin Message Notification Display

The preview shows the Admin Module Record form



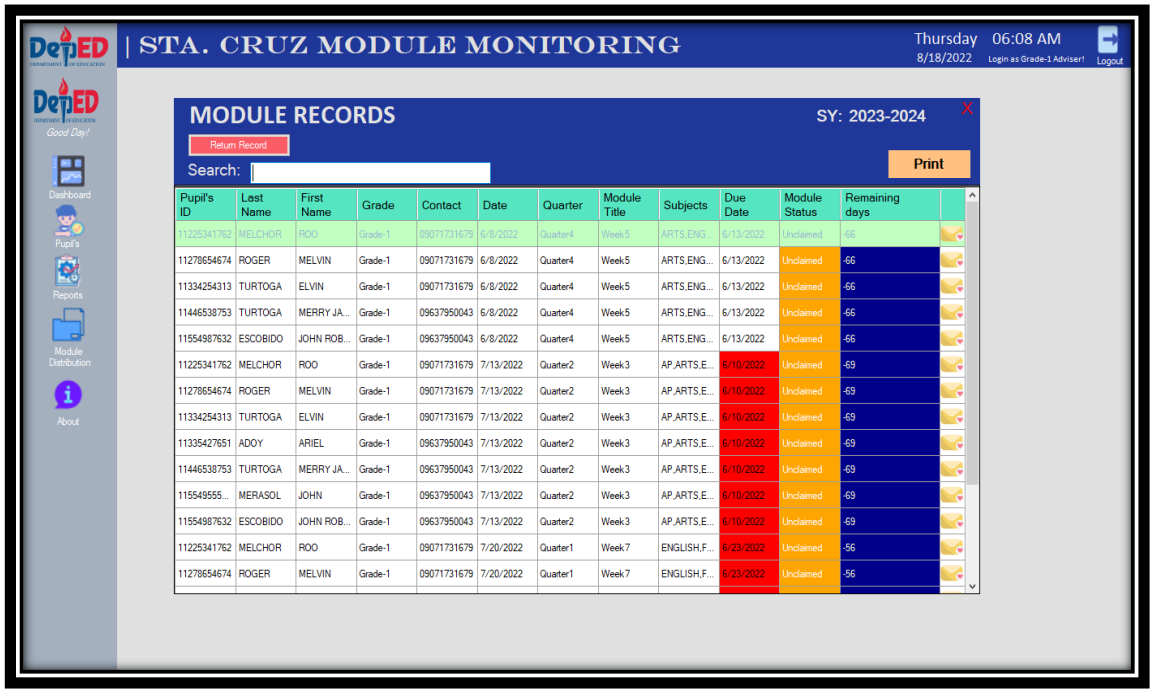
Preview 16. Admin Module Record Display

The preview shows the Admin Module Reports Form



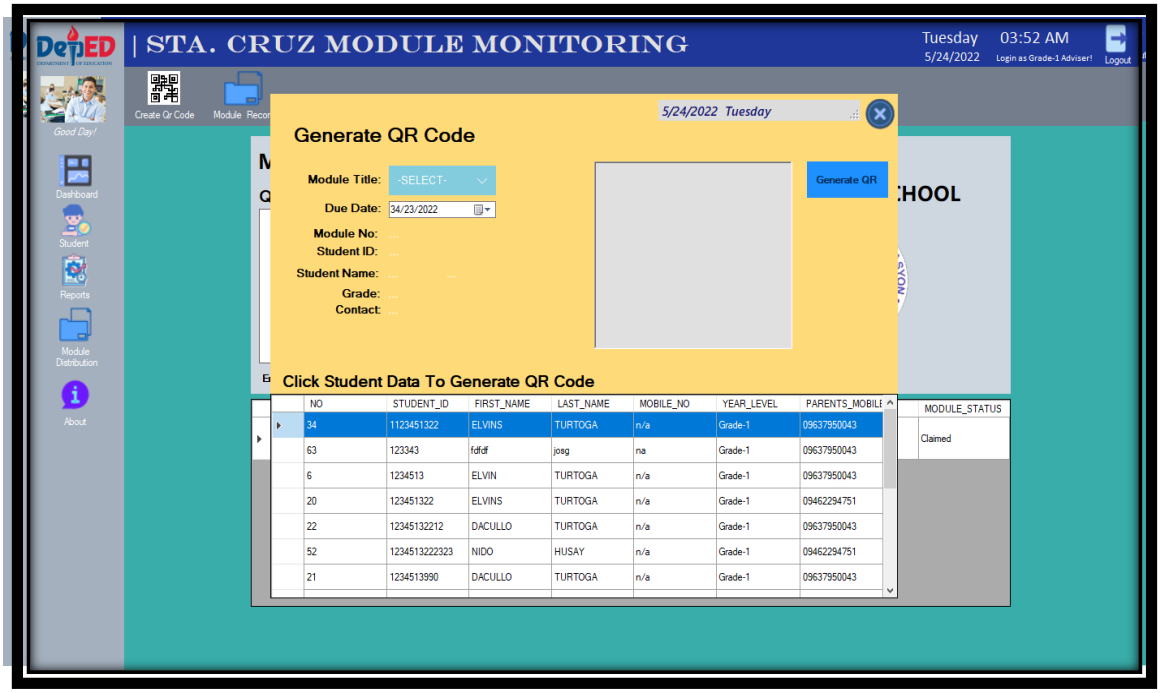
Preview 17. Admin Module Reports Display

The preview shows the Pupils Module Status form.



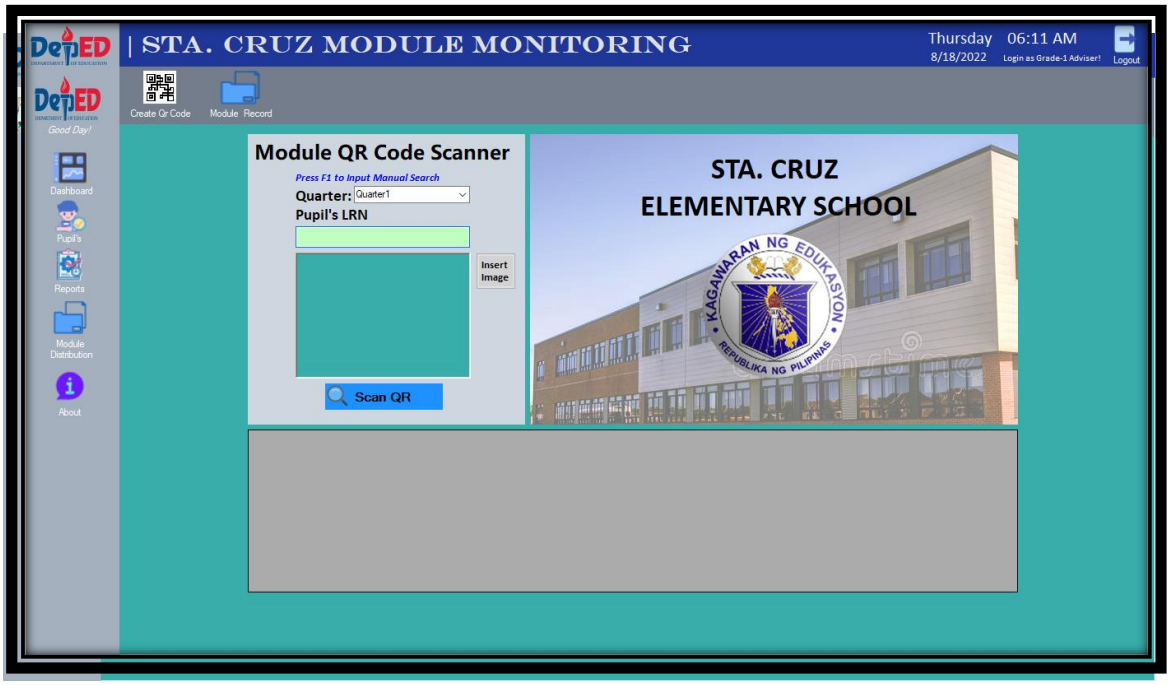
Preview 18. Pupils Module Status form

The preview shows the Generating the Pupils QR code form



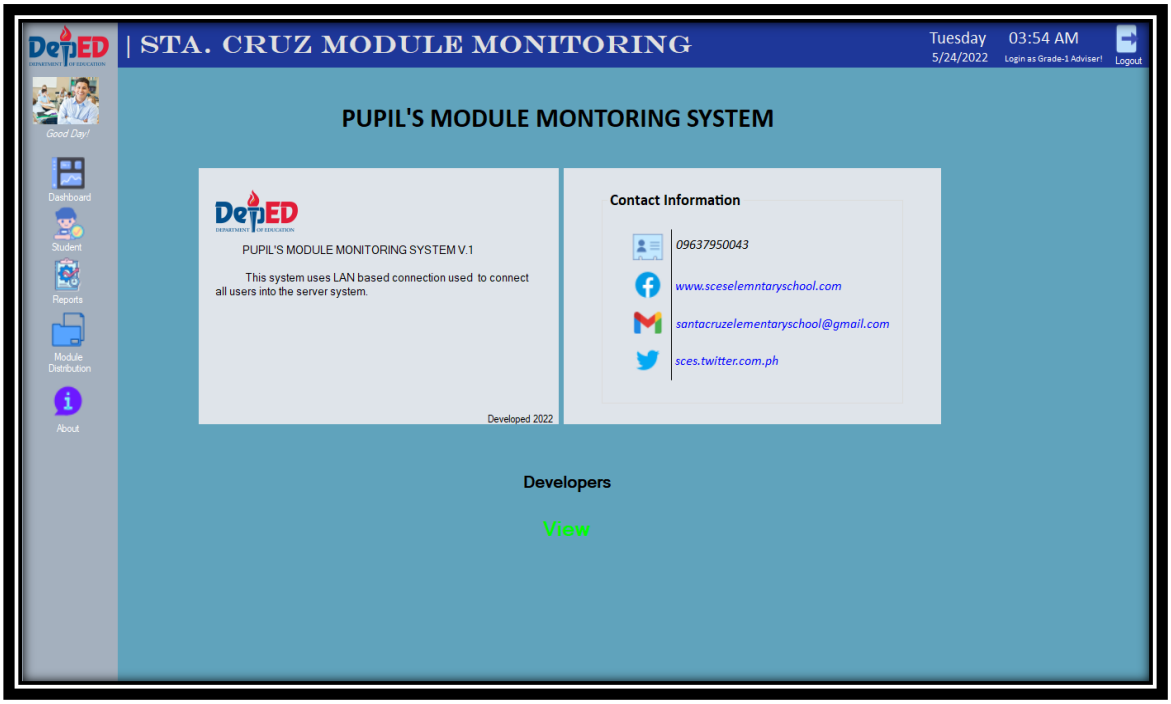
Preview 19. Generating the Pupils QR code Display

The preview shows the Scanning QR code form.



Preview 20. Scanning QR code Display

The preview shows About form.



Preview 21. About form Display

Testing and Evaluation

System testing of the application is usually done on complete application software to evaluate software's overall compliance with the business' functional and end user requirements. In system testing, a software test professional aims to detect defects or bugs both within the interfaces and also within the software as a whole. However, during integration testing of the application or software, the tester aims to detect the bugs or defects between the individual units that were integrated together. During system testing, the focus is on the software design, behavior and even the believed expectations of the customer. Thus, a significant aspect of design aspect of design was considered to meet the specified requirements of the client.

System Usability

The system usability questionnaire was adopted by Lewis, 1995. The system usability test was done at the Sta. Cruz Elementary School in the 23th day of May. The respondents were Head Teacher, and the teachers. The system's features in details are, registering, and updating Pupil's, module distribution, generation of reports in graphical form were demonstrated. It took 1-2 hours during the presentation of the system. the respondents did an actual hands-on on managing Pupils, module distribution and view the graphical reports. After the demonstration and Hands-on activity, the system usability questionnaire was answered.

Based from the result, the respondents gave a general rating of 6.44 with an interpretation of "Strongly Agree".

This implies that the system is usable in managing module distribution and specifically met the respondent's expectation in terms of functionalities and capabilities.

Table 27

System Usability Assessment Results

Criteria for system usability	Weighted Mean	Rating
1. Overall, I am satisfied with how easy it is to use this system	6.00	Strongly Agree
2. It was simple to use this system.	6.25	Strongly Agree
3. I can effectively complete my work using this system.	6.38	Strongly Agree
4. I am able to complete my work quickly using this system.	6.21	Strongly Agree
5. I am able to effectively complete my work using this system.	6.19	Strongly Agree
	5.82	Strongly Agree
6. I feel comfortable using this system.	6.32	Strongly Agree
7. It was easy to learn to use this system.	6.12	Strongly Agree
8. I believe I became productive quickly using this system.		
9. The system gives error messages that clearly tell me how to fix problems.	6.75	Strongly Agree
10. Whenever I make a mistake using the system, I recover easily and quickly.	6.68	Agree
11. The information (such as online help, on-screen messages, and other documentation) provided with this system is clear.	6.89	Strongly Agree
12. It is easy to find the information I needed.	6.10	Strongly Agree
13. The information provided for the system is easy to understand.	6.58	Strongly Agree
14. The information is effective in helping me complete tasks and scenarios.	6.61	Strongly Agree
15. The organization of this system screens is clear.	6.72	Strongly Agree
16. The interface of this system is pleasant,	6.40	Strongly Agree
17. I like using the interface of this system.	6.87	Strongly Agree
18. This system has all the functions and capabilities I expect it to have.	6.47	Strongly Agree
19. Overall, I am satisfied with this system.	6.91	Strongly Agree
AVERAGE WEIGHTED MEAN	6.44	Strongly Agree

Chapter 3

SUMMARY OF FINDINGS, CONCLUSION AND RECOMMENDATION

Summary of Findings

Based on the results of the survey, the limitations identified Sta. Cruz Elementary School of Sierra Bullones, Bohol had an opportunity to improve the monitoring system of the Pupils module. The Head teacher had expressed difficulty monitoring who had submitted modules which is time consuming using the manual process especially that all subjects modules are different and home visitation to parents is challenging to conduct. The identified problems and issues in the monitoring of modules had led the developers to come up a solution which manage and monitor students learning modules.

Based on the identified needs, Pupil's Module Monitoring System with SMS notification of Sta. Cruz Elementary School was developed with the following modules: Adding, Monitoring and Generation of Reports for module distribution. Based from the results of the evaluation, the respondents or the users had rated strongly agree on the system's functionality with average weighted mean of 6.44. This indicates satisfaction of clients particularly on the features of the system. Moreover, the survey was conducted to evaluate the functionality of the system. This implies that the developed system is strongly high on its usability. The result suggests that the system provides respondents. This conclude that the respondents strongly believe and confident that the system is very usable.

Conclusion

Based on the findings of the study, the developers have concluded that the Pupil's Module Monitoring System with SMS Notification of Sta. Cruz Elementary School, Sta. Cruz Sierra Bullones, Bohol had improved the module monitoring efficiency that fits the requirements and expectations of the client. The developed system highly acceptable to the clients and meet the satisfaction of the stakeholder. The researchers are confident that it fulfills the gap and promotes systematic management of module monitoring.

Moreover, adoption of the system requires minimal investment also incurs the low operational cost, hence the system affordable and economical.

Recommendation

Based on the aforementioned conclusions, it is recommended that the developed system should be implemented at Sta. Cruz Elementary School where the study is being done. The developers came up with the following recommendations in order to resolve the needs identified during the study.

1. The researchers recommended to Implement the Pupil's Module Monitoring System with SMS Notification of Sta. Cruz Elementary School, Sta. Cruz Sierra Bullones, Bohol to have a well-organized student's module distribution. Furthermore, the school is advised to purchase their own QR code scanner;
2. The researchers will provide training or orientation seminar must be conducted to the primary or target users to familiarize and be oriented with the features and operation of the new system.

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APPENDICES

APPENDIX A

Letter of Approval

Bohol Island State University
Bilar Campus
Zamora, Bilar, Bohol

College of Technology and Allied Sciences
Department of information and System Management

March 30, 2022

TERESA JAYOMA SAJUL
School Head
Sta. Cruz Elementary School
Sta. Cruz, Sierra Bullones, Bohol 6320

Dear Ma'am,

Greetings!

We, the Junior Students of Bachelor of Science in Computer Science of Bohol Island State University, are to conduct a system development project (thesis) as a requirement for graduation.

In this regards, we would like to ask your good office to accommodate us for a short office visit, at any time of your convenience, in order to personally ask permission to conduct a system study.

We sure you that we shall honor secrecy and privacy to all data and information we shall be handling as we go along with our study. Our data collection method shall include interview, observation and document review. Your approval will be a great help to the success of our study.

We anticipate your favorable response.

Thank you very much and more power!

Truly yours,

Respectfully yours,

JOHN ROBERT P. ESCOBIDO
ELVIN D. TURTOGA
RUBY JEAN D. VILLAMOR
MELANIE M. SAGOSOY
Researchers

Noted:

DARREL A. CARDAÑA
Subject Instructor

Recommended by:

SHEILA G. TABUNO
Chairperson, DCoS

SHEILA G. TABUNO
Thesis Adviser

Endorsed by:

ARLEN B. GUDMALIN, PhD
Dean, CTAS

Approved by:

TERESA V. SAJUL
Sta. Cruz Elementary School

APPENDIX B

LETTER OF IMPLEMENTATION

Bohol Island State University
Bilar Campus
Zamora, Bilar, Bohol

College of Technology and Allied Sciences
Department of information and System Management

May 24, 2022

TERESA JAYOMA SAJUL
School Head
Sta. Cruz Elementary School
Sta. Cruz, Sierra Bullones, Bohol 6320

Dear Ma'am,

Good day!

It is our pleasure to inform you that the system developed "Pupil's Module Monitoring System with SMS Notification of Sta. Cruz Elementary School, Sta. Cruz Sierra Bullones, Bohol" conducted by us is now ready for testing and benchmarking. This is an important phase for assessment and to come up with a thesis result in the conduct of our project.

We would like to ask again your permission to allow us to test the application in your system scenario in order to gauge the effectiveness and efficiency of the system. The testing will be involve the Sta. Cruz Faculty and The School Head as the admin of the system.

May this be the start of our partnership as soon as we shall turn over the system fully developed on you. Please answer the survey form and provide feedback for the improvement of the system. Lastly, your signature affixed would verify the veracity of the conduct of the activity.

Thank you and more power!

Truly yours,

Respectfully yours,

JOHN ROBERT P. ESCOBIDO
ELVIN D. TURTOGA
RUBY JEAN D. VILLAMOR
MELANIE M. SAGOSOY
Researchers

Noted:

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SHEILA G. TABUNO
Thesis Adviser

Endorsed by:

ARLEN B. GUDMALIN, PhD
Dean, CTAS

Approved by:

TERESA S. SAJUL
Sta. Cruz Elementary School

APPENDIX C

Letter for Questionnaire Distribution

Bohol Island State University
Bilar Campus
Zamora, Bilar, Bohol

Dear Respondents,

Greetings!

We, the system developer of the new automated system, wherein we integrated computer application in the basic process of the establishment had come up with the final phase of our project development which is the testing and implementation. We have put into operation the developed system and we want you take part in the testing process.

We would like to get your views and opinion in the developed system, thus this survey is conducted. We wished to know your feedback as we work for the improvement of the system. It is rightfully needed to hear your side since it would you would be using the developed system. Your input would be very valuable.

We really would appreciate it if you would take time and complete the questionnaire. The data that would be gathered shall be used for rating statistics in our developed system. If there are items you are confused with, feel free to ask and we would gladly assist you.

As we end this project, we wish to convey our heartfelt gratitude to the establishment for allowing us to conduct the study. The people who helped and of course to you and our dear clients/end users/costumer who had inspired us to dream greater than what was conceivable by the mind. Thank you so much! Together let us build a better world for everyone.

-The Developers

System Usability Questionnaire

Instructions:

- Please rate the usability questioner
- Try to respond to all of the items
- For items that are not applicable, use N/A
- Make sure these fields are filled in

Rating Scale:

Strongly Agree	Agree	Tend to Agree	Neither agree or disagree	Tend to disagree	Disagree	Disagree
7	6	5	4	3	2	1

7 – Strongly Agree

6 – Agree

5 – Tend to Agree

4 – Neither Agree or Disagree

3 – Tend to Disagree

2 – Disagree

1 – Strongly Disagree

Criteria for System Usability	Rating	Comment
1. Overall, I am satisfied with how easy is to use this system. 2. It was simple to use this system. 3. I can extremely complete my work using this system. 4. I am able to efficiently complete my work using this system. 5. I can effectively complete my work using this system. 6. I feel comfortable using this system. **7.** It was easy to learn to use this system. 8. I believe I became productive quickly using this system.		

9. The system gives error messages that clearly tell me how to fix problems. 10. Whenever I make a mistake using the system, I recover easily and quickly. 11. The information (such as online help, on screen messages, and other documentation) provided with the system is clear. 12. It is easy to find information I needed. 13. The information provided for the system is easy to understand. 14. The information provided is effective in helping me complete the tasks and scenarios. 15. The organization of the information on the system screens is clear. 16. The interface of this system is pleasant. 17. I like using the interface of this system. 18. This system has all the functions and capabilities I expect it to have. 19. Overall, I am satisfied with this system. 20. Overall, I am satisfied with this system Please list three things you like most about this system software 1. 2. 3. Please list three things you like most about this system software 1. 2. 3.		

Based on Lewis J.R. (1995) IBM Computer Usability Satisfaction Questionnaires: Psychometric Evaluation and Instructions for Use.

Guide Question for Interview

Head Teacher

1. What are the data to be collected in the present system?
2. What are the procedures in collecting data?
3. How are these procedures being done?
4. How do the modules of students being done?
5. Where are these modules being recorded?
6. How are these modules being and kept?
7. What are the problems encountered by the head teacher in collecting the data?

Teacher

1. What are the problems encountered in the present system?
2. How are the data being gathered?
3. How are the gathered data being organized?
4. How does the head teacher update the gathered data?
5. How do they protect the important files of students?

APPENDIX D

User's Manual

Head Teacher Log-in

Steps:

1. Click on the system shortcut
2. Input username password
3. Click "Login" button to access the system

A. Faculty Log-in

Steps:

4. Click change user
5. Click "Login" button to access the system.

B. Adding of Students

Steps:

1. Click "Student List"
2. Click "Add/Manage Student"
3. Input data
4. Click "Add Student" button

C. Update Students

Steps:

1. Click "Student Data" in data grid
2. Change the details that needs to update
3. Click "Update"

D. Creating QR codes

Steps:

1. Click “Modules Distribution”
2. Click “Create QR code”
3. Select “Module Title”
4. Input “Due Date”
5. Click “Student Data” from the data grid
6. Click “Generate QR”
7. Insert “QR Image”
8. Click “Save Record”

E. Scanning QR Code

Steps:

1. Click “Module Distribution”
2. Click “Start Camera”
3. Click “Scan” to Scan the QR Code
4. Or if the QR Code is blurred, Input “Module Number” to search the module

Changing Status of the Module

Steps:

1. Click “Claim” Button if the module was claimed
2. Click “Return” Button if the module was returned

F. View Module Records

Steps:

1. Click “Module Distribution”

2. Click “Module Records”

3. Click “Returned Module Record” to view the returned modules

4. Click “Claimed/Unclaimed” button to view Claimed/Unclaimed modules

G. Printing Students Reports

Steps:

1. Click “ Report” button

2. Click “Print Students” to print the student records

H. Printing module records

Steps:
1. Click “Reports” button

2. Click “Print module Records” to print the modules

3. Search the “module title” you want to print

4. Search the data you want to print

5. Click “Print”

I. Sending SMS Notification

Steps:
1. Click “Module Distributions” button

2. Click “Module Records” button

3. If the module has not yet Claim/Return Click “SMS Icon” button to notify the parents.

Log In:

```
Imports MySql.Data.MySqlClient
Public Class LOG

    Private Sub linkaccnt_LinkClicked(sender As Object, e As LinkLabelLinkClickedEventArgs) Handles
linkaccnt.LinkClicked
        PlayBackgroundSoundSlide()
        anima1.HideSync(p2)
        anima1.ShowSync(p33)
    End Sub

    Private Sub btnx_Click(sender As Object, e As EventArgs) Handles btnx.Click
        PlayBackgroundSoundSlide()
        anima1.HideSync(p33)
        anima1.ShowSync(p2)

        If cmbtype.SelectedItem = "Head" Then
            usertyp.Text = "Log in As ADMIN"
        End If
        If cmbtype.SelectedItem = "Kinder" Then
            usertyp.Text = "Log in As Kinder Adviser"
        End If
        If cmbtype.SelectedItem = "Grade-1" Then
            usertyp.Text = "Log in As Grade-1 Adviser"
        End If
        If cmbtype.SelectedItem = "Grade-2" Then
            usertyp.Text = "Log in As Grade-2 Adviser"
        End If
        If cmbtype.SelectedItem = "Grade-3" Then
            usertyp.Text = "Log in As Grade-3 Adviser"
        End If
        If cmbtype.SelectedItem = "Grade-4" Then
            usertyp.Text = "Log in As Grade-4 Adviser"
        End If
        If cmbtype.SelectedItem = "Grade-5" Then
            usertyp.Text = "Log in As Grade-5 Adviser"
        End If
        If cmbtype.SelectedItem = "Grade-6" Then
            usertyp.Text = "Log in As Grade-6 Adviser"
        End If

    End Sub

    Sub PlayBackgroundSoundResource()
        My.Computer.Audio.Play(My.Resources.save,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundResource1()
        My.Computer.Audio.Play(My.Resources.errorr,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundClick()
        My.Computer.Audio.Play(My.Resources.click,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundScan()
        My.Computer.Audio.Play(My.Resources.scaner,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundSlide()
        My.Computer.Audio.Play(My.Resources.slide,
            AudioPlayMode.Background)
    End Sub



    Private Sub BunifuThinButton21_Click(sender As Object, e As EventArgs) Handles BunifuThinButton21.Click
        PlayBackgroundSoundClick()
        Dim db As New MY_DB()
        Dim adapter As New MySqlDataAdapter()
```

```
        Dim table As New DataTable()
        '            Dim command As New MySqlCommand("UPDATE `user` SET `Teacher_Name`=@name,`uname`=@uname,`pass`=@pass,`usertype`=@adv,`Image`=@img WHERE id=@ID", db.getConnection)

        Dim command As New MySqlCommand("SELECT * FROM `user` WHERE `uname` = @usn AND `pass` = @pass AND `usertype` = @type", db.getConnection)

        command.Parameters.Add("@usn", MySqlDbType.VarChar).Value = user.Text
        command.Parameters.Add("@pass", MySqlDbType.VarChar).Value = pass.Text
        command.Parameters.Add("@type", MySqlDbType.VarChar).Value = cmbtype.SelectedItem

        adapter.SelectCommand = command
        adapter.Fill(table)

        If table.Rows.Count > 0 Then
            If (cmbtype.SelectedItem = "Head") Then
                Dim fmain As New AdminLoading()
                fmain.Show()
                Me.Close()
            Else
                If (cmbtype.SelectedItem = "Kinder") Then
                    Dim K As New KinderLoading()
                    K.Show()
                    Me.Close()
                Else
                    If (cmbtype.SelectedItem = "Grade-1") Then
                        Dim G1 As New Grade1Loading()
                        G1.Show()
                        Me.Close()
                    Else
                        If (cmbtype.SelectedItem = "Grade-2") Then
                            Dim g2 As New Grade2Loading()
                            g2.Show()
                            Me.Close()
                        Else
                            If (cmbtype.SelectedItem = "Grade-3") Then
                                Dim g3 As New Grade3Loading()
                                g3.Show()
                                Me.Close()
                            Else
                                If (cmbtype.SelectedItem = "Grade-4") Then
                                    Dim g4 As New Grade4Loading()
                                    g4.Show()
                                   Me.Close()
                                Else
                                    If (cmbtype.SelectedItem = "Grade-5") Then
                                        Dim g5 As New Grade5Loading()
                                        g5.Show()
                                        Me.Close()
                                    Else
                                        If (cmbtype.SelectedItem = "Grade-6") Then
                                            Dim g6 As New Grade6Loading()
                                            g6.Show()
                                            Me.Close()

                                        End If
                                    End If
                                End If
                            End If
                        End If
                    End If
                End If
            End If

        Else
            Message.Show()
            PlayBackgroundSoundResource1()
            Message.Label.ForeColor = Color.White
            Message.Label.Text = "Ooppss!!"
```

```
            Message.txtmessage.Text = "Incorrect Password or Username!" & vbNewLine & "or Selected User Error!"
        End If
    End Sub

    Private Sub LOG_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        'HIDE THE TEXT OF THE TextBox3 ON THE FIRST LOAD
        pass.UseSystemPasswordChar = True


        "hint
        'If user.Text = "" Then
        '    user.Text = "Enter username..."
        '    user.ForeColor = Color.Gray
        'Else
        '    user.ForeColor = Color.White
        'End If

        'If pass.Text = "" Then
        '    pass.Text = "123"
        '    pass.ForeColor = Color.Gray
        'Else
        '    pass.ForeColor = Color.White
        'End If
        If cmbtype.SelectedItem = "Head" Then

            usertyp.Text = "Log in as Admin!"
        End If
    End Sub

    Private Sub lforgot_Click(sender As Object, e As EventArgs) Handles lforgot.Click
        forgetpassword.ShowDialog()
    End Sub

    Private Sub CheckBox1_CheckedChanged(sender As Object, e As EventArgs) Handles CheckBox1.CheckedChanged
        'CHECKING IF THE CHECKBOX WAS CHECKED OR NOT.
        If CheckBox1.CheckState = CheckState.Checked Then
            'IF TRUE, IT SHOWS THE TEXT
            pass.UseSystemPasswordChar = False
        Else
            'IF FALSE, IT WILL HIDE THE TEXT AND IT WILL TURN INTO BULLETS.
            pass.UseSystemPasswordChar = True
        End If
    End Sub
    Private Sub user_TextChanged(sender As Object, e As EventArgs) Handles user.TextChanged
    End Sub
End Class
```

About:

```
Public Class About
    Private Sub PictureBox1_Click(sender As Object, e As EventArgs) Handles PictureBox1.Click
        Grade1ScanQr.PlayBackgroundSoundSlide()
        robert.ShowDialog()
    End Sub
    Private Sub PictureBox2_Click(sender As Object, e As EventArgs) Handles PictureBox2.Click
        Grade1ScanQr.PlayBackgroundSoundSlide()
        elvin.ShowDialog()
    End Sub
    Private Sub PictureBox3_Click(sender As Object, e As EventArgs) Handles PictureBox3.Click
        Grade1ScanQr.PlayBackgroundSoundSlide()
        melanie.ShowDialog()
    End Sub
    Private Sub PictureBox4_Click(sender As Object, e As EventArgs) Handles PictureBox4.Click
        Grade1ScanQr.PlayBackgroundSoundSlide()
        ruby.ShowDialog()
    End Sub
    Private Sub About_Load(sender As Object, e As EventArgs) Handles MyBase.Load
    End Sub
End Class
```

Add User Account:

```
Imports System.IO
Imports MySql.Data.MySqlClient
Imports System.Drawing.Imaging

Public Class Add_User_Account
    Dim user As New User_CLASS()
    Sub PlayBackgroundSoundResource()
        My.Computer.Audio.Play(My.Resources.errorr,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundResource1()
        My.Computer.Audio.Play(My.Resources.save,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundResource2()
        My.Computer.Audio.Play(My.Resources.clr,
            AudioPlayMode.Background)
    End Sub
    Private Sub Add_User_Account_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        ' Dim command As New MySqlCommand("SELECT `id`,`Teacher_Name`, `uname`, `pass`,`usertype`,`Image` FROM
`user`  order by ID asc") `
        Dim command As New MySqlCommand("SELECT id as `ID`,Teacher_Name as `TEACHER NAME`,Contact as
`Contact`,uname as `USERNAME`,pass as `PASSWORD`, usertype as `ADVISORY`, Image as `IMAGE` FROM `user`
order by ID asc")

        sudlanangGridUser(command)
    End Sub
    Sub sudlanangGridUser(ByVal command As MySqlCommand)
        dguserview.ReadOnly = True
        Dim pikColumn As New DataGridViewImageColumn()
        dguserview.RowTemplate.Height = 80
        dguserview.DataSource = user.getUsers(command)
        pikColumn = dguserview.Columns(6)
        pikColumn.ImageLayout = DataGridViewImageCellLayout.Stretch
        dguserview.AllowUserToAddRows = False
        'display count student sa total nga label
        Utotal.Text = "Total Students: " & dguserview.Rows.Count
    End Sub
    Private Sub btnaddimage_Click(sender As Object, e As EventArgs) Handles btnaddimage.Click
        PlayBackgroundSoundClick()
        Dim opf As New OpenFileDialog()
        opf.Filter = "Select image (*.jpg;*.png;*.gif)|*.jpg;*.png;*.gif"
        If opf.ShowDialog() = Windows.Forms.DialogResult.OK Then
            pic1.Image = Image.FromFile(opf.FileName)
        End If
    End Sub

    'function verify data
    ' radmale.Text.Trim() = "" Or  Or radactive.Text.Trim() = ""
    Function verify() As Boolean
        If tname.Text.Trim() = "" Or txtcon.Text.Trim() = "" Or Username.Text.Trim() = "" Or Password.Text.Trim() = "" Or
            pic1.Image Is Nothing Then

            Return False
        Else
            Return True
        End If

    End Function

    Private Sub dguserview_Click(sender As Object, e As EventArgs) Handles dguserview.Click
        PlayBackgroundSoundClick()
        idd.Text = dguserview.CurrentRow.Cells(0).Value.ToString()
        tname.Text = dguserview.CurrentRow.Cells(1).Value.ToString()
```

```
        txtcon.Text = dguserview.CurrentRow.Cells(2).Value.ToString()

        Username.Text = dguserview.CurrentRow.Cells(3).Value.ToString()
        Password.Text = dguserview.CurrentRow.Cells(4).Value.ToString()
        cmbAdvisory.Text = dguserview.CurrentRow.Cells(5).Value.ToString()

        'display image from datagrid
        Dim pic As Byte()
        pic = dguserview.CurrentRow.Cells(6).Value
        Dim picture As New MemoryStream(pic)
        pic1.Image = Image.FromStream(picture)

    End Sub

    Private Sub update1_Click(sender As Object, e As EventArgs) Handles update1.Click
        PlayBackgroundSoundClick()
        Dim id As Integer
        Dim name As String = tname.Text
        Dim con As String = txtcon.Text
        Dim uname As String = Username.Text
        Dim pass As String = Password.Text
        Dim advisory As String = cmbAdvisory.Text
        Dim Uimage As New MemoryStream
        If verify() Then

            Try
                id = Convert.ToInt32(idd.Text)
            Catch ex As Exception
                '   Message.Show()
                PlayBackgroundSoundResource()
                Message.Label.ForeColor = Color.White
                Message.Label.Text = "Ooppss!!"
                Message.txtmessage.Text = "ID must Numeric!"
                Message.ShowDialog()
            End Try
            pic1.Image.Save(Uimage, pic1.Image.RawFormat)

            If user.checkusertype(uname) Then
                If user.updateUser(id, name, con, uname, pass, advisory, Uimage) Then
                    '   Message.Show()
                    PlayBackgroundSoundResource1()
                    Message.Label.ForeColor = Color.White
                    Message.Label.Text = "Yayyy!"
                    Message.txtmessage.Text = "Updated Successfully!"
                    Message.ShowDialog()
                    Dim command As New MySqlCommand("SELECT id as `ID`,Teacher_Name as `TEACHER NAME`, Contact as `Contact`,uname as `USERNAME`,pass as `PASSWORD`, usertype as `ADVISORY`, Image as `IMAGE` FROM `user` order by ID asc")

                    sudlanangGridUser(command)
                    adminsendmessage.LOADRECORD()
                    clr()

                Else
                    '  Message.Show()
                    PlayBackgroundSoundResource()
                    Message.Label.ForeColor = Color.White
                    Message.Label.Text = "Ooppss!!"
                    Message.txtmessage.Text = "Something Went Wrong!"
                    Message.ShowDialog()
                End If
            Else
                PlayBackgroundSoundResource()
                Message.Label.ForeColor = Color.White
                Message.Label.Text = "Ooppss!!"
                Message.txtmessage.Text = "Username Already Taken!" & vbNewLine & "Try another One!"
                Message.ShowDialog()
            End If
        Else
```

```
            '   Message.Show()
            PlayBackgroundSoundResource()
            Message.Label.ForeColor = Color.White
            Message.Label.Text = "Ooppss!!"
            Message.txtmessage.Text = "Please Input Missing Field!"
            Message.ShowDialog()

        End If
    End Sub
    Private Sub Panel1_Paint(sender As Object, e As PaintEventArgs) Handles Panel1.Paint
    End Sub
    Sub PlayBackgroundSoundClick()
        My.Computer.Audio.Play(My.Resources.click,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundScan()
        My.Computer.Audio.Play(My.Resources.scaner,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundSlide()
        My.Computer.Audio.Play(My.Resources.slide,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundrefresh()
        My.Computer.Audio.Play(My.Resources.refresh,
            AudioPlayMode.Background)
    End Sub
    Private Sub Panel2_Paint(sender As Object, e As PaintEventArgs) Handles Panel2.Paint
    End Sub
    Sub clr()
        tname.Text = ""
        txtcon.Text = ""
        Username.Text = ""
        Password.Text = ""
        cmbAdvisory.Text = "..."
    End Sub
    Private Sub txtcon_KeyPress(sender As Object, e As KeyPressEventArgs) Handles txtcon.KeyPress
        'only number accept
        If Not Char.IsControl(e.KeyChar) AndAlso Not Char.IsDigit(e.KeyChar) Then
            e.Handled = True
        End If
    End Sub
End Class
```

AdminModuleRecord:

```
Imports MySql.Data.MySqlClient
Public Class adminModuleRecord
    Dim student As New STUDENTCLASS()
    Private Sub adminModuleRecord_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        sy()
    End Sub
    Sub LOADRECORD()
        Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`,
`GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `kinder_module` order by STUDENT_ID asc ")
        DataGridView1.ReadOnly = True
        DataGridView1.AllowUserToAddRows = False
        DataGridView1.RowTemplate.Height = 50
        DataGridView1.DataSource = student.getStudents(command)
        DataGridView1.AllowUserToAddRows = False
    End Sub
    Sub LOADRECORD1()
        Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`,
`GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade1_module` order by STUDENT_ID asc ")
        DataGridView1.ReadOnly = True
        DataGridView1.AllowUserToAddRows = False
        DataGridView1.RowTemplate.Height = 50
        DataGridView1.DataSource = student.getStudents(command)
        DataGridView1.AllowUserToAddRows = False
```

```
    End Sub
    Sub LOADRECORD2()
        Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`,
`GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade2_module` order by STUDENT_ID asc ")
        DataGridView1.ReadOnly = True
        DataGridView1.AllowUserToAddRows = False
        DataGridView1.RowTemplate.Height = 50
        DataGridView1.DataSource = student.getStudents(command)
        DataGridView1.AllowUserToAddRows = False
    End Sub

    Sub LOADRECORD3()
        Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`,
`GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade3_module` order by STUDENT_ID asc ")
        DataGridView1.ReadOnly = True
        DataGridView1.AllowUserToAddRows = False
        DataGridView1.RowTemplate.Height = 50
        DataGridView1.DataSource = student.getStudents(command)
        DataGridView1.AllowUserToAddRows = False
    End Sub
    Sub LOADRECORD4()
        Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`,
`GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade4_module` order by STUDENT_ID asc ")
        DataGridView1.ReadOnly = True
        DataGridView1.AllowUserToAddRows = False
        DataGridView1.RowTemplate.Height = 50
        DataGridView1.DataSource = student.getStudents(command)
        DataGridView1.AllowUserToAddRows = False
    End Sub
    Sub LOADRECORD5()
        Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`,
`GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade5_module` order by STUDENT_ID asc ")
        DataGridView1.ReadOnly = True
        DataGridView1.AllowUserToAddRows = False
        DataGridView1.RowTemplate.Height = 50
        DataGridView1.DataSource = student.getStudents(command)
        DataGridView1.AllowUserToAddRows = False
    End Sub
    Sub LOADRECORD6()
        Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`,
`GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade6_module` order by STUDENT_ID asc ")
        DataGridView1.ReadOnly = True
        DataGridView1.AllowUserToAddRows = False
        DataGridView1.RowTemplate.Height = 50
        DataGridView1.DataSource = student.getStudents(command)
        DataGridView1.AllowUserToAddRows = False
    End Sub
    Sub sy()
        Dim command As New MySqlCommand("SELECT aycode FROM ay")
        syrview.ReadOnly = True
        syrview.DataSource = student.getStudents(command)
        syr1.Text = syrview.CurrentRow.Cells(0).Value
    End Sub
    Private Sub btngo_Click(sender As Object, e As EventArgs)
        If cmbgrade.SelectedItem = "Kinder" Then
            LOADRECORD()
        Else
            If cmbgrade.SelectedItem = "Grade-1" Then
                LOADRECORD1()
            Else
                If cmbgrade.SelectedItem = "Grade-2" Then
                    LOADRECORD2()
                Else
                    If cmbgrade.SelectedItem = "Grade-3" Then
                        LOADRECORD3()
                    Else

                        If cmbgrade.SelectedItem = "Grade-4" Then
                            LOADRECORD4()
                        Else
```

```
                    If cmbgrade.SelectedItem = "Grade-5" Then
                        LOADRECORD5()
                    Else
                        If cmbgrade.SelectedItem = "Grade-6" Then
                            LOADRECORD6()
                        End If
                    End If
                End If
            End If
        End If
    End If
End Sub
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Button3.Visible = False
    If cmbgrade.SelectedItem = "Kinder" Then
        'para mukita dayon unsa imu gi search
        If stat.SelectedItem = "Return" Then
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`, `MODULE_TITLE`,`RETURN_DATE`, `MODULE_STATUS` FROM `kinderstudent` WHERE MODULE_TITLE LIKE '%" & cmbweek.Text & "%' AND MODULE_STATUS LIKE '%" & stat.Text & "%' AND QUARTER LIKE '%" & quarter.Text & "%' ")
            sudlanangGrid(command)
        Else
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `kinder_module` WHERE MODULE_TITLE LIKE '%" & cmbweek.Text & "%' AND MODULE_STATUS LIKE '%" & stat.Text & "%' AND QUARTER LIKE '%" & quarter.Text & "%' order by STUDENT_ID asc ")
            sudlanangGrid(command)
        End If
    ElseIf cmbgrade.SelectedItem = "Grade-1" Then

        If stat.SelectedItem = "Return" Then
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`, `MODULE_TITLE`,`RETURN_DATE`, `MODULE_STATUS` FROM `g1student` WHERE MODULE_TITLE LIKE '%" & cmbweek.Text & "%' AND MODULE_STATUS LIKE '%" & stat.Text & "%' AND QUARTER LIKE '%" & quarter.Text & "%' ")
            sudlanangGrid(command)
        Else
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade1_module` WHERE MODULE_TITLE LIKE '%" & cmbweek.Text & "%' AND MODULE_STATUS LIKE '%" & stat.Text & "%' AND QUARTER LIKE '%" & quarter.Text & "%' order by STUDENT_ID asc ")
            sudlanangGrid(command)
        End If
    ElseIf cmbgrade.SelectedItem = "Grade-2" Then
        If stat.SelectedItem = "Return" Then
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`, `MODULE_TITLE`, `RETURN_DATE`,`MODULE_STATUS` FROM `g2student` WHERE MODULE_TITLE LIKE '%" & cmbweek.Text & "%' AND MODULE_STATUS LIKE '%" & stat.Text & "%' AND QUARTER LIKE '%" & quarter.Text & "%' ")
            sudlanangGrid(command)
        Else
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade2_module` WHERE MODULE_TITLE LIKE '%" & cmbweek.Text & "%' AND MODULE_STATUS LIKE '%" & stat.Text & "%' AND QUARTER LIKE '%" & quarter.Text & "%' order by STUDENT_ID asc ")
            sudlanangGrid(command)
        End If
    ElseIf cmbgrade.SelectedItem = "Grade-3" Then
        If stat.SelectedItem = "Return" Then
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`, `MODULE_TITLE`, `RETURN_DATE`,`MODULE_STATUS` FROM `g3student` WHERE MODULE_TITLE LIKE '%" & cmbweek.Text & "%' AND MODULE_STATUS LIKE '%" & stat.Text & "%' AND QUARTER LIKE '%" & quarter.Text & "%' ")
            sudlanangGrid(command)
        Else
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade3_module` WHERE MODULE_TITLE LIKE
```

```
'%" & cmbweek.Text & "%' AND MODULE_STATUS LIKE '%" & stat.Text & "%' AND QUARTER LIKE '%" & quarter.Text & "%' order by STUDENT_ID asc ")
            sudlanangGrid(command)
        End If
    ElseIf cmbgrade.SelectedItem = "Grade-4" Then
        If stat.SelectedItem = "Return" Then
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`, `MODULE_TITLE`, `RETURN_DATE`,`MODULE_STATUS` FROM `g4student` WHERE MODULE_TITLE LIKE '%" & cmbweek.Text & "%' AND MODULE_STATUS LIKE '%" & stat.Text & "%' AND QUARTER LIKE '%" & quarter.Text & "%'")
            sudlanangGrid(command)
        Else
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade4_module` WHERE MODULE_TITLE LIKE '%" & cmbweek.Text & "%' AND MODULE_STATUS LIKE '%" & stat.Text & "%' AND QUARTER LIKE '%" & quarter.Text & "%' order by STUDENT_ID asc ")
            sudlanangGrid(command)
        End If
    ElseIf cmbgrade.SelectedItem = "Grade-5" Then
        If stat.SelectedItem = "Return" Then
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`, `MODULE_TITLE`, `RETURN_DATE`,`MODULE_STATUS` FROM `g5student` WHERE MODULE_TITLE LIKE '%" & cmbweek.Text & "%' AND MODULE_STATUS LIKE '%" & stat.Text & "%' AND QUARTER LIKE '%" & quarter.Text & "%' ")
            sudlanangGrid(command)
        Else
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade5_module` WHERE MODULE_TITLE LIKE '%" & cmbweek.Text & "%' AND MODULE_STATUS LIKE '%" & stat.Text & "%' AND QUARTER LIKE '%" & quarter.Text & "%' order by STUDENT_ID asc ")
            sudlanangGrid(command)
        End If
    ElseIf cmbgrade.SelectedItem = "Grade-6" Then
        If stat.SelectedItem = "Return" Then
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`, `MODULE_TITLE`,`RETURN_DATE`, `MODULE_STATUS` FROM `g6student` WHERE MODULE_TITLE LIKE '%" & cmbweek.Text & "%' AND MODULE_STATUS LIKE '%" & stat.Text & "%' AND QUARTER LIKE '%" & quarter.Text & "%' ")
            sudlanangGrid(command)
        Else
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade6_module` WHERE MODULE_TITLE LIKE '%" & cmbweek.Text & "%' AND MODULE_STATUS LIKE '%" & stat.Text & "%' AND QUARTER LIKE '%" & quarter.Text & "%' order by STUDENT_ID asc ")
            sudlanangGrid(command)
        End If
        End If
    End Sub
    Sub sudlanangGrid(ByVal command As MySqlCommand)
        DataGridView1.ReadOnly = True
        DataGridView1.RowTemplate.Height = 50
        DataGridView1.DataSource = student.getStudents(command)
        DataGridView1.AllowUserToAddRows = False
    End Sub

    Private Sub Label4_Click(sender As Object, e As EventArgs) Handles Label4.Click
        Me.Dispose()
    End Sub

    Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
        With Reports
            .syr = syr1.Text
            'select by week
            .loadreport1()
            .loadreport2()
            .loadreport3()
            .loadreport4()
            .loadreport5()
            .loadreport6()
            .loadreport7()
```

```
            .ShowDialog()
        End With
    End Sub
    Private Sub btnselect_Click(sender As Object, e As EventArgs) Handles btnselect.Click
        Button3.Visible = True
        cmbweek.Text = ""
        If cmbgrade.SelectedItem = "Kinder" Then
            'para mukita dayon unsa imu gi search
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `kinder_module` ")

            sudlanangGrid(command)
        ElseIf cmbgrade.SelectedItem = "Grade-1" Then
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade1_module` ")
            sudlanangGrid(command)
        ElseIf cmbgrade.SelectedItem = "Grade-2" Then
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade2_module` ")
            sudlanangGrid(command)
        ElseIf cmbgrade.SelectedItem = "Grade-3" Then
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade3_module` ")
            sudlanangGrid(command)
        ElseIf cmbgrade.SelectedItem = "Grade-4" Then
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade4_module` ")

            sudlanangGrid(command)

        ElseIf cmbgrade.SelectedItem = "Grade-5" Then
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade5_module` ")
            sudlanangGrid(command)
        ElseIf cmbgrade.SelectedItem = "Grade-6" Then
            Dim command As New MySqlCommand("SELECT `STUDENT_ID`,`LAST_NAME`, `FIRST_NAME`, `GRADE`,`QUARTER`,`MODULE_TITLE`, `MODULE_STATUS` FROM `grade6_module` ")
            sudlanangGrid(command)
        End If
    End Sub
    Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click

        With Reports
            .syr = syr1.Text
            'select all
            .loadreport11()
            .loadreport22()
            .loadreport33()
            .loadreport44()
            .loadreport55()
            .loadreport66()
            .loadreport77()
            .ShowDialog()
        End With
    End Sub
    Private Sub cmbgrade_SelectedIndexChanged(sender As Object, e As EventArgs) Handles cmbgrade.SelectedIndexChanged
    End Sub
    Private Sub cmbweek_SelectedIndexChanged(sender As Object, e As EventArgs) Handles cmbweek.SelectedIndexChanged
    End Sub
    Private Sub stat_SelectedIndexChanged(sender As Object, e As EventArgs) Handles stat.SelectedIndexChanged, quarter.SelectedIndexChanged

    End Sub
End Class
```

Adminreport:

```
Imports MySql.Data.MySqlClient
Public Class adminreport
```

```
    Dim student As New STUDENTCLASS()
    Private Sub Label2_Click(sender As Object, e As EventArgs) Handles Label2.Click, Label3.Click
    End Sub
    Private Sub BunifuImageButton2_Click(sender As Object, e As EventArgs) Handles BunifuImageButton2.Click
        With Reports
            .syr = syr1.Text
            .loadreport()
            .ShowDialog()
        End With
    End Sub
    Private Sub Panel1_Paint(sender As Object, e As PaintEventArgs) Handles Panel1.Paint
    End Sub
    Sub sy()
        Dim command As New MySqlCommand("SELECT aycode FROM ay")
        syrview.ReadOnly = True
        syrview.DataSource = Student.getStudents(command)
        syr1.Text = syrview.CurrentRow.Cells(0).Value
    End Sub
    Private Sub adminreport_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        sy()
    End Sub
    Private Sub BunifuImageButton1_Click(sender As Object, e As EventArgs) Handles BunifuImageButton1.Click
        With adminModuleRecord
            .ShowDialog()
        End With
    End Sub
End Class
```

Adminsendmessage:

```
Imports MySql.Data.MySqlClient
Imports System.IO.Ports
Imports System.Management
Imports System.Threading
Imports System.IO
Public Class adminsendmessage
    Dim GlobalSMS As String = ""
    Dim MessageCenter As String = "+639180000101"
    Dim sp As New SerialPort
    ' Dim word = txtmessage.Text
    Dim word2 = " From: Santa Cruz Elementary School"
    Dim word3 = "This is Generated Text!"
    Dim word4 = "Don Not Reply!"
    Dim student As New User_CLASS()
    Public Function ModemsConnected() As String
        Dim modems As String = ""
        Try
            Dim searcher As New ManagementObjectSearcher( _
                "root\CIMV2", _
                "Select * from Win32_POTSModem")
            For Each queryobj As ManagementObject In searcher.Get()
                If queryobj("Status") = "OK" Then
                    modems = modems & queryobj("AttachedTo") & "-" & queryobj("Description") & "***"
                End If
            Next
        Catch ex As Exception
        End Try
        Return modems
    End Function
    Private Sub grade1message_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        LOADRECORD()
        Try
            Dim ports2() As String
            ports2 = Split(ModemsConnected(), "***")
            For i As Integer = 0 To ports2.Length - 2
                Dim port_des As String = (ports2(i))
                Dim gg As String = port_des
                gg = Trim(Mid(port_des, 1, 5))
                Dim cleanstring As String = Replace(gg, "-", "")
```

```
            Console.WriteLine(cleanstring)
            With SerialPort1
                .PortName = cleanstring
                '.BaudRate = 115200
                '.Parity = Parity.None
                '.StopBits = StopBits.One
                '.DataBits = 8
                '.Handshake = Handshake.RequestToSend
                '.DtrEnable = True
                '.RtsEnable = True
                SerialPort1.BaudRate = 9600
                SerialPort1.Parity = Parity.None
                SerialPort1.StopBits = StopBits.One
                SerialPort1.DataBits = 8
                SerialPort1.Handshake = Handshake.RequestToSend
                SerialPort1.DtrEnable = True
                SerialPort1.RtsEnable = True
                'GlobalSMS = textMessage.Text
                .NewLine = vbCrLf
                ''SerialPort1.NewLine = vbCrLf
                SerialPort1.Open()
                '.Open()
                ToolStripStatusLabel1.Text = "Connected."
                ToolStripStatusLabel1.ForeColor = Color.Green
            End With
        Next
    Catch ex As Exception
        ToolStripStatusLabel1.Text = "Disconnected."
        ToolStripStatusLabel1.ForeColor = Color.Red
    End Try
End Sub
Sub PlayBackgroundSoundResource()
    My.Computer.Audio.Play(My.Resources.errorr,
        AudioPlayMode.Background)
End Sub
Sub PlayBackgroundSoundResource1()
    My.Computer.Audio.Play(My.Resources.save,
        AudioPlayMode.Background)
End Sub
Sub PlayBackgroundSoundResource2()
    My.Computer.Audio.Play(My.Resources.clr,
        AudioPlayMode.Background)
End Sub
Sub PlayBackgroundSoundClick()
    My.Computer.Audio.Play(My.Resources.click,
        AudioPlayMode.Background)
End Sub
Sub PlayBackgroundSoundScan()
    My.Computer.Audio.Play(My.Resources.scaner,
        AudioPlayMode.Background)
End Sub
Sub PlayBackgroundSoundSlide()
    My.Computer.Audio.Play(My.Resources.slide,
        AudioPlayMode.Background)
End Sub
Sub PlayBackgroundSoundrefresh()
    My.Computer.Audio.Play(My.Resources.refresh,
        AudioPlayMode.Background)
End Sub
Sub loadcmb()
    cmbname.DataSource = student.getuserss()
    cmbname.DisplayMember = "Teacher Name"
    cmbname.ValueMember = "Teacher Name"
    '   cmbname.Text = ""
End Sub
Sub sudlanangGrid(ByVal command As MySqlCommand)
    Datagidname.ReadOnly = True
    Datagidname.RowTemplate.Height = 50
    Datagidname.DataSource = student.getUsers(command)
    Datagidname.AllowUserToAddRows = False
```

```
    End Sub
    Sub LOADRECORD()
        Dim con As New MySqlConnection("datasource=localhost;port=3306;username=root;password=;database=sces_db")
        Dim command As New MySqlCommand("SELECT id as `ID`,Teacher_Name as `Teacher Name` ,Contact as `Contact`
, usertype as `Advisory` FROM `user` WHERE `usertype`= 'Kinder' or `usertype` ='Grade-1' or `usertype` ='Grade-2' or
`usertype` ='Grade-3' or `usertype` ='Grade-4' or `usertype` ='Grade-5' or `usertype` ='Grade-6' order by id asc", con)
        'Datagidname.ReadOnly = True
        Datagidname.AllowUserToAddRows = False
        Datagidname.RowTemplate.Height = 50
        'Datagidname.DataSource = student.getUsers(command)
        'Datagidname.AllowUserToAddRows = False
        Dim sd As New MySqlDataAdapter(command)
        Dim dt As New DataTable
        sd.Fill(dt)
        Datagidname.DataSource = dt
    End Sub
    Private Sub cmbname_KeyPress(sender As Object, e As KeyPressEventArgs) Handles cmbname.KeyPress
        e.Handled = True
    End Sub
    Private Sub cmbname_SelectedIndexChanged(sender As Object, e As EventArgs) Handles
cmbname.SelectedIndexChanged
        'para mukita dayon unsa imu gi search
        Dim command As New MySqlCommand("SELECT id as `ID`, Teacher_Name as `Teacher Name`,Contact as
`Contact`,usertype as `Advisory` FROM `user` WHERE CONCAT(`Teacher_Name`)LIKE '%" & cmbname.Text & "%'")
        sudlanangGrid(command)
    End Sub
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        PlayBackgroundSoundClick()
        LOADRECORD()
        cmbname.Text = ""
        Button3.Visible = True
        Button1.Visible = False
    End Sub
    Private Sub btnsend_Click(sender As Object, e As EventArgs) Handles btnsend.Click
        PlayBackgroundSoundClick()
        'mao ni gikan sa message
        For i As Integer = 0 To Datagidname.RowCount - 1
            GlobalSMS = txtmessage.Text + word2 + word3 + word4
            If SerialPort1.IsOpen = True Then
                SerialPort1.Write("AT" & vbCrLf)
                System.Threading.Thread.Sleep(200)
                SerialPort1.WriteLine("AT+CMGF=1" & vbCrLf)
                System.Threading.Thread.Sleep(200)
                SerialPort1.WriteLine("AT+CSCA=" & Chr(34) & Me.MessageCenter & Chr(34) & vbCrLf)
                System.Threading.Thread.Sleep(200)
                SerialPort1.Write("AT+CMGS=" & Chr(34) & (Datagidname.Rows(i).Cells(2).Value.ToString()) & Chr(34) &
vbCrLf)
                System.Threading.Thread.Sleep(200)
                SerialPort1.Write(GlobalSMS & Chr(26))
                System.Threading.Thread.Sleep(200)
                '     MessageBox.Show("Message sent", "Sent", MessageBoxButtons.OK, MessageBoxIcon.Information)
                'sent message
                PlayBackgroundSoundResource1()
                Message.Label.ForeColor = Color.White
                Message.Label.Text = "Sent"
                Message.txtmessage.Text = "Message Sent!"
                Message.ShowDialog()
                'SerialPort1.Close()
            Else
                '  MessageBox.Show("Port not available", "Port", MessageBoxButtons.OK, MessageBoxIcon.Information)
                PlayBackgroundSoundResource()
                Message.Label.ForeColor = Color.White
                Message.Label.Text = "Ooppss!!"
                Message.txtmessage.Text = "Port Not Available!"
                Message.ShowDialog()
            End If
        Next
    End Sub
    Sub smsenabled()
        Label1.Visible = True
```

```
        txtmessage.Visible = True
        btnsend.Visible = True
    End Sub
    Sub smsdisabled()
        Label1.Visible = False
        txtmessage.Visible = False
        btnsend.Visible = False
    End Sub
    Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
        smsenabled()
    End Sub
    Private Sub txtmessage_TextChanged(sender As Object, e As EventArgs) Handles txtmessage.TextChanged
        Label1.Visible = False
    End Sub
    Private Sub Button3_Click(sender As Object, e As EventArgs) Handles Button3.Click
        loadcmb()
        Button1.Visible = True
        Button3.Visible = False
    End Sub
End Class
```

AdminUpdateStudent:

```
Imports System.IO
Imports MySql.Data.MySqlClient
Imports System.Drawing.Imaging
Public Class AdminUpdateStudent
    Dim student As New STUDENTCLASS()
    Sub clr()
        studid.Text = ""
        studmiddlename.Text = ""
        studfirstname.Text = ""
        studlastname.Text = ""
        bdate1.Text = Nothing
        studaddress.Text = ""
        studgrade.SelectedItem = Nothing
        studguardian.Text = ""
        studparentsnumber.Text = ""
        pic1.Image = Nothing
        studage.Text = "#"
    End Sub
    Sub PlayBackgroundSoundResource()
        My.Computer.Audio.Play(My.Resources.errorr,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundResource1()
        My.Computer.Audio.Play(My.Resources.save,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundResource2()
        My.Computer.Audio.Play(My.Resources.clr,
            AudioPlayMode.Background)
    End Sub
    Private Sub AdminUpdateStudent_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        auotocompletetxt1()
        Dim command As New MySqlCommand("SELECT `NO`, `STUDENT_ID`, `LAST_NAME`, `FIRST_NAME`,
`MIDDLE_NAME`, `ADDRESS`, `YEAR_LEVEL`, `GENDER`, `BIRTH_DATE`,`AGE`,`PARENTS_GUARDIAN`,
`PARENTS_MOBILE`, `STUDENT_IMAGE` FROM `student`")
        sudlanangGrid(command)
        sy()
    End Sub
    Sub sy()
        Dim command As New MySqlCommand("SELECT aycode FROM ay")
        syrview.ReadOnly = True
        syrview.DataSource = Student.getStudents(command)
        syr1.Text = syrview.CurrentRow.Cells(0).Value
    End Sub
    'sub para mo fill sa datagrid nig search
    Sub sudlanangGrid(ByVal command As MySqlCommand)
        Managedg.ReadOnly = True
        Dim pikColumn As New DataGridViewImageColumn()
```

```
        Managedg.RowTemplate.Height = 50
        Managedg.DataSource = student.getStudents(command)
        pikColumn = Managedg.Columns(12)
        pikColumn.ImageLayout = DataGridViewImageCellLayout.Stretch
        Managedg.AllowUserToAddRows = False
        'display count student sa total nga label
        Total.Text = "Total Students: " & Managedg.Rows.Count
    End Sub
    Private Sub btnupdate_Click(sender As Object, e As EventArgs) Handles btnupdate.Click
        PlayBackgroundSoundClick()
       Dim no As String = nooo.Text
        Dim id As String = studid.Text
        Dim fname As String = studfirstname.Text
        Dim lname As String = studlastname.Text
        Dim mname As String = studmiddlename.Text
        Dim address As String = studaddress.Text
        Dim year As String = studgrade.Text
        Dim bdate As Date = bdate1.Value
        Dim age As String = studage.Text
        Dim parent As String = studguardian.Text
        Dim pmobile As String = studparentsnumber.Text
        Dim simage As New MemoryStream
        Dim qrimage As New MemoryStream
        Dim gender As String = "Female"
        If radmale.Checked Then
            gender = "Male"
        End If
        'check if bday is too high or low
        Dim born_year As Integer = bdate1.Value.Year
        Dim this_year As Integer = Date.Now.Year
        'allow age between 10 - 100
        If this_year - born_year < 4 Or this_year - born_year > 100 Then
          ' Message.Show()
            PlayBackgroundSoundResource()
            Message.Label.ForeColor = Color.White
            Message.Label.Text = "Ooppss!!"
            Message.txtmessage.Text = "Age must be between 4 and 100!"
            Message.ShowDialog()
        Else
            If verify() Then
                pic1.Image.Save(simage, pic1.Image.RawFormat)
                pic.Image.Save(qrimage, System.Drawing.Imaging.ImageFormat.Jpeg)
                If student.updateStudent1(no, id, fname, lname, mname, gender, bdate, age, address, year, parent, pmobile,
simage, qrimage) Then
                    '   Message.Show()
                    PlayBackgroundSoundResource1()
                    Message.Label.ForeColor = Color.White
                    Message.Label.Text = "Yayyy!"
                    Message.txtmessage.Text = "Updated Successfully!"
                    Message.ShowDialog()
                    Dim command As New MySqlCommand("SELECT `NO`, `STUDENT_ID`, `LAST_NAME`, `FIRST_NAME`,
`MIDDLE_NAME`,      `ADDRESS`,`YEAR_LEVEL`,      `GENDER`,      `BIRTH_DATE`,`AGE`,`PARENTS_GUARDIAN`,
`PARENTS_MOBILE`, `STUDENT_IMAGE` FROM `student`")
                    sudlanangGrid(command)
                Else
                    '  Message.Show()
                    PlayBackgroundSoundResource()
                    Message.Label.ForeColor = Color.White
                    Message.Label.Text = "Ooppss!!"
                    Message.txtmessage.Text = "Unable to Update ID!"
                    Message.ShowDialog()
                    clr()
                End If
            Else
                '   Message.Show()
                PlayBackgroundSoundResource()
                Message.Label.ForeColor = Color.White
                Message.Label.Text = "Ooppss!!"
                Message.txtmessage.Text = "Please Input Missing Field!"
                Message.ShowDialog()
```

```
            End If
        End If
    End Sub
    Function verify() As Boolean
        If studfirstname.Text.Trim() = "" Or studlastname.Text.Trim() = "" Or studfirstname.Text.Trim() = "" Or
studmiddlename.Text.Trim() = "" Or
            studaddress.Text.Trim() = "" Or studguardian.Text.Trim() = "" Or
            studparentsnumber.Text.Trim() = "" Or pic1.Image Is Nothing Then
            Return False
        Else
            Return True
        End If
    End Function
    Private Sub BunifuFlatButton1_Click(sender As Object, e As EventArgs) Handles BunifuFlatButton1.Click
        PlayBackgroundSoundClick()
        Me.Hide()
    End Sub
    Private Sub Managedg_Click(sender As Object, e As EventArgs) Handles Managedg.Click
        PlayBackgroundSoundClick()
        Try
            nooo.Text = Managedg.CurrentRow.Cells(0).Value.ToString()
            studid.Text = Managedg.CurrentRow.Cells(1).Value.ToString()
            studlastname.Text = Managedg.CurrentRow.Cells(4).Value.ToString()
            studfirstname.Text = Managedg.CurrentRow.Cells(3).Value.ToString()
            studmiddlename.Text = Managedg.CurrentRow.Cells(2).Value.ToString()
            studaddress.Text = Managedg.CurrentRow.Cells(5).Value.ToString()
            studgrade.Text = Managedg.CurrentRow.Cells(6).Value.ToString()
            'gender
            If Managedg.CurrentRow.Cells(7).Value.ToString() = "Female" Then
                radfemale.Checked = True
            Else
                If Managedg.CurrentRow.Cells(7).Value.ToString() = "Male" Then
                    radmale.Checked = True
                End If
            End If
            bdate1.Value = Managedg.CurrentRow.Cells(8).Value
            studage.Text = Managedg.CurrentRow.Cells(9).Value.ToString()
            studguardian.Text = Managedg.CurrentRow.Cells(10).Value.ToString()
            studparentsnumber.Text = Managedg.CurrentRow.Cells(11).Value.ToString()
            'display image from datagrid
            Dim pic As Byte()
            pic = Managedg.CurrentRow.Cells(12).Value
            Dim picture As New MemoryStream(pic)
            pic1.Image = Image.FromStream(picture)
        Catch ex As Exception
            Message.Show()
            PlayBackgroundSoundResource()
            Message.Label.ForeColor = Color.White
            Message.Label.Text = "Ooppss!!"
            Message.txtmessage.Text = "No Record Found!"
        End Try
    End Sub
    Private Sub stxtbox_TextChanged(sender As Object, e As EventArgs) Handles stxtbox.TextChanged
        'para mukita dayon unsa imu gi search
        Dim command As New MySqlCommand("SELECT * FROM `student` WHERE
CONCAT(`STUDENT_ID`,`FIRST_NAME`,`LAST_NAME`,`ADDRESS`,`YEAR_LEVEL`)LIKE '%" & stxtbox.Text & "%'")
        sudlanangGrid(command)
    End Sub
    Private Sub btnaddimage_Click(sender As Object, e As EventArgs) Handles btnaddimage.Click
        PlayBackgroundSoundClick()
        Dim opf As New OpenFileDialog()
        opf.Filter = "Select image (*.jpg;*.png;*.gif)|*.jpg;*.png;*.gif"
        If opf.ShowDialog() = Windows.Forms.DialogResult.OK Then
            pic1.Image = Image.FromFile(opf.FileName)
        End If
    End Sub
    Private Sub btndownload_Click(sender As Object, e As EventArgs) Handles btndownload.Click
        PlayBackgroundSoundClick()
        Dim svf As New SaveFileDialog()
        svf.FileName = "student_" & studfirstname.Text
```

```
        If pic1.Image Is Nothing Then
            Message.Show()
            PlayBackgroundSoundResource()
            Message.Label.ForeColor = Color.White
            Message.Label.Text = "Ooppss!!"
            Message.txtmessage.Text = "No Image source!"
        Else
            If svf.ShowDialog() = Windows.Forms.DialogResult.OK Then
                pic1.Image.Save(svf.FileName & "." & ImageFormat.Jpeg.ToString())
            End If
        End If
    End Sub
    Sub PlayBackgroundSoundClick()
        My.Computer.Audio.Play(My.Resources.click,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundScan()
        My.Computer.Audio.Play(My.Resources.scaner,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundSlide()
        My.Computer.Audio.Play(My.Resources.slide,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundrefresh()
        My.Computer.Audio.Play(My.Resources.refresh,
            AudioPlayMode.Background)
    End Sub
    Private Sub btnadd_Click(sender As Object, e As EventArgs) Handles btnadd.Click
        PlayBackgroundSoundClick()
        Dim student As New STUDENTCLASS()
        Dim id As String = studid.Text
        Dim fname As String = studfirstname.Text
        Dim mname As String = studmiddlename.Text
        Dim lname As String = studlastname.Text
        Dim address As String = studaddress.Text
        Dim year As String = studgrade.SelectedItem
        Dim bdate As Date = bdate1.Value
        Dim age As String = studage.Text
        Dim parent As String = studguardian.Text
        Dim pmobile As String = studparentsnumber.Text
        Dim simage As New MemoryStream
        Dim qrimage As New MemoryStream
        Dim gender As String = "Female"
        If radmale.Checked Then
            gender = "Male"
        End If
        'check if bday is too high or low
        Dim born_year As Integer = bdate1.Value.Year
        Dim this_year As Integer = Date.Now.Year
        'allow age between 10 - 100
        If this_year - born_year < 4 Or this_year - born_year > 100 Then
            '  Message.Show()
            PlayBackgroundSoundResource()
            Message.Label.ForeColor = Color.White
            Message.Label.Text = "Ooppss!!"
            Message.txtmessage.Text = "Age must be between 4 and 100!"
            Message.ShowDialog()

        Else
            If verify() Then
                If student.checkstudentid(id) Then
                    pic1.Image.Save(simage, pic1.Image.RawFormat)
                    pic.Image.Save(qrimage, System.Drawing.Imaging.ImageFormat.Jpeg)
                    If student.insertStudent(id, fname, mname, lname, gender, bdate, age, address, year, parent, pmobile, simage,
qrimage) Then
                        '    Message.Show()
                        PlayBackgroundSoundResource1()
                        Message.Label.ForeColor = Color.White
                        Message.Label.Text = "Yayyy!"
```

```
                Message.txtmessage.Text = "Succesfully Added!"
                Message.ShowDialog()
                clr()
                Dim command As New MySqlCommand("select * from `student`")
                sudlanangGrid(command)
                Studentlists.ref()
            Else
                '  Message.Show()
                PlayBackgroundSoundResource()
                Message.Label.ForeColor = Color.White
                Message.Label.Text = "Ooppss!!"
                Message.txtmessage.Text = "Something Went Wrong!"
                Message.ShowDialog()
            End If
        Else
            '  Message.Show()
            PlayBackgroundSoundResource()
            Message.Label.ForeColor = Color.White
            Message.Label.Text = "Ooppss!!"
            Message.txtmessage.Text = "Student Already Exist!"
            Message.ShowDialog()
        End If
    Else
        '  Message.Show()
        PlayBackgroundSoundResource()
        Message.Label.ForeColor = Color.White
        Message.Label.Text = "Ooppss!!"
        Message.txtmessage.Text = "Please Input Missing Field!"
        Message.ShowDialog()
    End If
  End If
 End Sub
 Sub cage()
  With bdate1.Value
   Dim celebrate As DateTime = New DateTime(Now.Year, .Month, .Day)
   Dim edad As Integer = Now.Year - .Year
   If celebrate > Now Then edad -= 1
   studage.Text = CStr(edad)
  End With
 End Sub
 Private Sub bdate1_ValueChanged(sender As Object, e As EventArgs) Handles bdate1.ValueChanged
  cage()
 End Sub
 Private Sub studparentsnumber_KeyPress(sender As Object, e As KeyPressEventArgs) Handles
studparentsnumber.KeyPress
  'only number accept
  If Not Char.IsControl(e.KeyChar) AndAlso Not Char.IsDigit(e.KeyChar) Then
   e.Handled = True
  End If
 End Sub
 Sub auotocompletetxt1()
  Dim con As New MySqlConnection("datasource=localhost;port=3306;username=root;password=;database=sces_db")
  Dim cmd As New MySqlCommand()
  Dim da As New MySqlDataAdapter()
  Dim dt As New DataTable()
  Dim ds As New DataSet()
  Try
   dt = New DataTable
   'OPENING THE CONNECTION
   con.Open()
   'HOLDS THE DATA TO BE EXECUTED
   With cmd
    .Connection = con
    .CommandText = "SELECT STUDENT_ID, FIRST_NAME, LAST_NAME, MIDDLE_NAME, ADDRESS,
PARENTS_GUARDIAN  FROM student"
   End With
   'FILLING THE DATA IN THE DATATABLE
   da.SelectCommand = cmd
   da.Fill(dt)
   'SET A VARIABLE AS A ROW OF DATA IN THE DATATABLE
```

```
        Dim r As DataRow
        'CLEARING THE AUTOCOMPLETE SOURCE OF THE TEXTBOX
        studfirstname.AutoCompleteCustomSource.Clear()
        'LOOPING THE ROW OF DATA IN THE DATATABLE
        For Each r In dt.Rows
            'ADDING THE DATA IN THE AUTO COMPLETE SOURCE OF THE TEXTBOX
            studid.AutoCompleteCustomSource.Add(r.Item(0).ToString)
            studfirstname.AutoCompleteCustomSource.Add(r.Item(1).ToString)
            studmiddlename.AutoCompleteCustomSource.Add(r.Item(2).ToString)
            studlastname.AutoCompleteCustomSource.Add(r.Item(3).ToString)
            studaddress.AutoCompleteCustomSource.Add(r.Item(4).ToString)
            studguardian.AutoCompleteCustomSource.Add(r.Item(5).ToString)
            '    studmiddlename.auto()
        Next            """""""""""""""""""
    Catch ex As Exception
        MsgBox(ex.Message)
    End Try
    'CLOSING THE CONNECTION
    con.Close()
    da.Dispose()
End Sub

Private Sub AdminUpdateStudent_KeyDown(sender As Object, e As KeyEventArgs) Handles MyBase.KeyDown
    If e.KeyCode = Keys.F5 Then
        PlayBackgroundSoundResource2()
        clr()
    End If
End Sub
Private Sub studid_KeyPress(sender As Object, e As KeyPressEventArgs) Handles studid.KeyPress
    'only number accept

    If Not Char.IsControl(e.KeyChar) AndAlso Not Char.IsDigit(e.KeyChar) Then
        e.Handled = True
    End If
End Sub
Private Sub studmiddlename_MouseLeave(sender As Object, e As EventArgs) Handles studmiddlename.MouseLeave
    studmiddlename.Text = studmiddlename.Text.ToUpper
End Sub
Private Sub studfirstname_MouseLeave(sender As Object, e As EventArgs) Handles studfirstname.MouseLeave
    studfirstname.Text = studfirstname.Text.ToUpper
End Sub
Private Sub studlastname_MouseLeave(sender As Object, e As EventArgs) Handles studlastname.MouseLeave
    studlastname.Text = studlastname.Text.ToUpper
End Sub
Private Sub studaddress_MouseLeave(sender As Object, e As EventArgs) Handles studaddress.MouseLeave
    studaddress.Text = studaddress.Text.ToUpper
End Sub
Private Sub studguardian_MouseLeave(sender As Object, e As EventArgs) Handles studguardian.MouseLeave
    studguardian.Text = studguardian.Text.ToUpper
End Sub
Private Sub studid_TextChanged(sender As Object, e As EventArgs) Handles studid.TextChanged
    'create qr
    Dim qrgenerator As New MessagingToolkit.QRCode.Codec.QRCodeEncoder
    qrgenerator.QRCodeScale = 20
    qrgenerator.QRCodeVersion = 0
    pic.Image = qrgenerator.Encode(studid.Text)
End Sub
Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    PlayBackgroundSoundClick()
    Dim svf As New SaveFileDialog()
    svf.FileName = studmiddlename.Text & "_" & studid.Text
    If pic1.Image Is Nothing Then
        Message.Show()
        PlayBackgroundSoundResource()
        Message.Label.ForeColor = Color.White
        Message.Label.Text = "Ooppss!!"
        Message.txtmessage.Text = "No Image source!"
    Else
        If svf.ShowDialog() = Windows.Forms.DialogResult.OK Then
            pic.Image.Save(svf.FileName & "." & ImageFormat.Png.ToString())
```

```
            End If
        End If
    End Sub
    Private Sub Panel5_Paint(sender As Object, e As PaintEventArgs) Handles Panel5.Paint
    End Sub
End Class
```

Dashboard:

```
Imports System.Windows.Forms.DataVisualization.Charting
Imports MySql.Data.MySqlClient
Public Class Dashboard
    Dim MysqlConn As New MySqlConnection
    Dim cn As New MySqlConnection
    Dim COMMAND As MySqlCommand
    Dim pantotalColor As Color
    Dim panmaleColor As Color
    Dim panfemaleColor As Color
  Private Sub Dashboard_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        With cn
            .ConnectionString = "datasource=localhost;port=3306;username=root;password=;database=sces_db"
            .Open()
        End With
        alltotal()
        parasamodulestatus()
        parasamodulestatus1()
        parasamodulestatus2()
        parasamodulestatus3()
        parasamodulestatus4()
        parasamodulestatus5()
        parasamodulestatus6()
        kinderdata()
        grade1data()
        grade2data()
        grade3data()
        grade4data()
        grade5data()
        grade6data()
        kindertotal()
        g1totalll()
        g2totalll()
        g3totalll()
        g4totalll()
        g5totalll()
        g6totalll()
    End Sub
    Sub alltotal()
        pantotalColor = Paneltotal.BackColor
        panmaleColor = PanelMale.BackColor
        panfemaleColor = PanelFemale.BackColor
        "Display sa total
        Dim student As New STUDENTCLASS()
        Dim total As Integer = Convert.ToInt32(student.totalStudent())
        Dim totalMale As Integer = Convert.ToInt32(student.totalMalestudent())
        Dim totalFemale As Integer = Convert.ToInt32(student.totalFemaleStudent())
        Dim maleStudentPercentage As Double = totalMale * 100 / total
        Dim femaleStudentPercentage As Double = totalFemale * 100 / total
        Labeltotal.Text = total.ToString()
        Labelmale.Text = maleStudentPercentage.ToString("0.00") & "%"
        Labelfemale.Text = femaleStudentPercentage.ToString("0.00") & "%"
    End Sub
    Sub kindertotal()
        Dim student As New STUDENTCLASS()
        Dim totalMale As Integer = Convert.ToInt32(student.totalMalekinder())
        Dim totalFemale As Integer = Convert.ToInt32(student.totalFemalekinder())
        kmale.Text = totalMale.ToString
        kfemale.Text = totalFemale.ToString
    End Sub
    Sub g1totalll()
        "Display sa total
        Dim student As New STUDENTCLASS()
```

```
    Dim totalMale As Integer = Convert.ToInt32(student.totalMaleg1())
    Dim totalFemale As Integer = Convert.ToInt32(student.totalFemaleg1())

    g1male.Text = totalMale.ToString
    g1female.Text = totalFemale.ToString
End Sub
Sub g2totalll()
    ''Display sa total
    Dim student As New STUDENTCLASS()
    Dim totalMale As Integer = Convert.ToInt32(student.totalMaleg2())
    Dim totalFemale As Integer = Convert.ToInt32(student.totalFemaleg2())
    g2male.Text = totalMale.ToString
    g2female.Text = totalFemale.ToString
End Sub
Sub g3totalll()
    Dim student As New STUDENTCLASS()
    Dim totalMale As Integer = Convert.ToInt32(student.totalMaleg3())
    Dim totalFemale As Integer = Convert.ToInt32(student.totalFemaleg3())
    g3male.Text = totalMale.ToString
    g3female.Text = totalFemale.ToString
End Sub
Sub g4totalll()
    Dim student As New STUDENTCLASS()
    Dim totalMale As Integer = Convert.ToInt32(student.totalMaleg4())
    Dim totalFemale As Integer = Convert.ToInt32(student.totalFemaleg4())
    g4male.Text = totalMale.ToString
    g4female.Text = totalFemale.ToString
End Sub
Sub g5totalll()
    Dim student As New STUDENTCLASS()
    Dim totalMale As Integer = Convert.ToInt32(student.totalMaleg5())
    Dim totalFemale As Integer = Convert.ToInt32(student.totalFemaleg5())
   g5male.Text = totalMale.ToString
    g5female.Text = totalFemale.ToString
End Sub
Sub g6totalll()
    Dim student As New STUDENTCLASS()
    Dim totalMale As Integer = Convert.ToInt32(student.totalMaleg6())
    Dim totalFemale As Integer = Convert.ToInt32(student.totalFemaleg6())
    g6male.Text = totalMale.ToString
    g6female.Text = totalFemale.ToString
End Sub
Sub allstudentdata()
    MysqlConn = New MySqlConnection
    MysqlConn.ConnectionString = "datasource=localhost;port=3306;username=root;password=;database=sces_db"
    Dim READER As MySqlDataReader
    Try
        MysqlConn.Open()
        Dim query As String
        query = "select * from sces_db.student"
        COMMAND = New MySqlCommand(query, MysqlConn)
        READER = COMMAND.ExecuteReader
        While READER.Read
            Chart1.Series("Students").Points.AddXY(READER.GetString("FIRST_NAME"), READER.GetInt32("AGE"))
        End While
        MysqlConn.Close()
    Catch ex As Exception
        MessageBox.Show(ex.Message)
    Finally
        MysqlConn.Dispose()
    End Try
End Sub
Sub kinderdata()
    Chart1.Series(0).Points.Clear()
    MysqlConn = New MySqlConnection
    MysqlConn.ConnectionString = "datasource=localhost;port=3306;username=root;password=;database=sces_db"
    Dim READER As MySqlDataReader
    Try
        MysqlConn.Open()
        COMMAND = New MySqlCommand("select * from student where YEAR_LEVEL ='Kinder'", MysqlConn)
```

```
        READER = COMMAND.ExecuteReader
        While READER.Read
            Chart1.Series("Kinder").Points.AddXY(READER.GetString("FIRST_NAME"), READER.GetInt32("AGE"))
        End While
        MysqlConn.Close()
    Catch ex As Exception
        MessageBox.Show(ex.Message)
    Finally
        MysqlConn.Dispose()
    End Try
End Sub
Sub grade1data()
    Chart3.Series(0).Points.Clear()
    MysqlConn = New MySqlConnection
    MysqlConn.ConnectionString = "datasource=localhost;port=3306;username=root;password=;database=sces_db"
    Dim READER As MySqlDataReader
    Try
        MysqlConn.Open()
        Dim query As String
        query = "select * from student where YEAR_LEVEL ='Grade-1'"
        COMMAND = New MySqlCommand(query, MysqlConn)
        READER = COMMAND.ExecuteReader
        While READER.Read
            Chart3.Series("Grade1").Points.AddXY(READER.GetString("FIRST_NAME"), READER.GetInt32("AGE"))
        End While
        MysqlConn.Close()
    Catch ex As Exception
        MessageBox.Show(ex.Message)
    Finally
        MysqlConn.Dispose()
    End Try
End Sub
Sub grade2data()
    Chart4.Series(0).Points.Clear()
    MysqlConn = New MySqlConnection
    MysqlConn.ConnectionString = "datasource=localhost;port=3306;username=root;password=;database=sces_db"
    Dim READER As MySqlDataReader
    Try
        MysqlConn.Open()
        Dim query As String
        query = "select * from student where YEAR_LEVEL ='Grade-2'"
        COMMAND = New MySqlCommand(query, MysqlConn)
        READER = COMMAND.ExecuteReader
        While READER.Read
            Chart4.Series("Grade2").Points.AddXY(READER.GetString("FIRST_NAME"), READER.GetInt32("AGE"))
        End While
        MysqlConn.Close()
    Catch ex As Exception
        MessageBox.Show(ex.Message)
    Finally
        MysqlConn.Dispose()
    End Try
End Sub
Sub grade3data()
    Chart5.Series(0).Points.Clear()
    MysqlConn = New MySqlConnection
    MysqlConn.ConnectionString = "datasource=localhost;port=3306;username=root;password=;database=sces_db"
    Dim READER As MySqlDataReader
    Try
        MysqlConn.Open()
        Dim query As String
        query = "select * from student where YEAR_LEVEL= 'Grade-3'"
        COMMAND = New MySqlCommand(query, MysqlConn)
        READER = COMMAND.ExecuteReader
        While READER.Read
            Chart5.Series("Grade3").Points.AddXY(READER.GetString("FIRST_NAME"), READER.GetInt32("AGE"))
        End While
        MysqlConn.Close()
    Catch ex As Exception
        MessageBox.Show(ex.Message)
```

```
    Finally
        MysqlConn.Dispose()
    End Try
End Sub
Sub grade4data()
    Chart6.Series(0).Points.Clear()
    MysqlConn = New MySqlConnection
    MysqlConn.ConnectionString = "datasource=localhost;port=3306;username=root;password=;database=sces_db"
    Dim READER As MySqlDataReader
    Try
        MysqlConn.Open()
        Dim query As String
        query = "select * from student where YEAR_LEVEL= 'Grade-4'"
        COMMAND = New MySqlCommand(query, MysqlConn)
        READER = COMMAND.ExecuteReader
        While READER.Read
            Chart6.Series("Grade4").Points.AddXY(READER.GetString("FIRST_NAME"), READER.GetInt32("AGE"))
        End While
        MysqlConn.Close()
    Catch ex As Exception
        MessageBox.Show(ex.Message)
    Finally
        MysqlConn.Dispose()
    End Try
End Sub
Sub grade5data()
    Chart7.Series(0).Points.Clear()
    MysqlConn = New MySqlConnection
    MysqlConn.ConnectionString = "datasource=localhost;port=3306;username=root;password=;database=sces_db"
    Dim READER As MySqlDataReader
    Try
        MysqlConn.Open()
        Dim query As String
        query = "select * from student where YEAR_LEVEL ='Grade-5'"
        COMMAND = New MySqlCommand(query, MysqlConn)
        READER = COMMAND.ExecuteReader
        While READER.Read
            Chart7.Series("Grade5").Points.AddXY(READER.GetString("FIRST_NAME"), READER.GetInt32("AGE"))
        End While
        MysqlConn.Close()
    Catch ex As Exception
        MessageBox.Show(ex.Message)
    Finally
        MysqlConn.Dispose()
    End Try
End Sub
Sub grade6data()
    Chart8.Series(0).Points.Clear()
    MysqlConn = New MySqlConnection
    MysqlConn.ConnectionString = "datasource=localhost;port=3306;username=root;password=;database=sces_db"
    Dim READER As MySqlDataReader
    Try
        MysqlConn.Open()
        Dim query As String
        query = "select * from student where YEAR_LEVEL= 'Grade-6'"
        COMMAND = New MySqlCommand(query, MysqlConn)
        READER = COMMAND.ExecuteReader
        While READER.Read
            Chart8.Series("Grade6").Points.AddXY(READER.GetString("FIRST_NAME"), READER.GetInt32("AGE"))
        End While
        MysqlConn.Close()
    Catch ex As Exception
        MessageBox.Show(ex.Message)
    Finally
        MysqlConn.Dispose()
    End Try
End Sub
Sub refresh1()
    pantotalColor = Paneltotal.BackColor
    panmaleColor = PanelMale.BackColor
```

```
    panfemaleColor = PanelFemale.BackColor
    ''Display sa total
    Dim student As New STUDENTCLASS()
    Dim total As Integer = Convert.ToInt32(student.totalStudent())
    Dim totalMale As Integer = Convert.ToInt32(student.totalMalestudent())
    Dim totalFemale As Integer = Convert.ToInt32(student.totalFemaleStudent())
        Dim maleStudentPercentage As Double = totalMale * 100 / total
    Dim femaleStudentPercentage As Double = totalFemale * 100 / total
    Labeltotal.Text = total.ToString()
    Labelmale.Text = maleStudentPercentage.ToString("0.00") & "%"
    Labelfemale.Text = femaleStudentPercentage.ToString("0.00") & "%"
End Sub
Sub parasamodulestatus()
    Dim student As New STUDENTCLASS()
    Dim done As Integer = Convert.ToInt32(student.totalkdone())
    Dim distributed As Integer = Convert.ToInt32(student.totalkdistributed())
    Dim unclaim1 As Integer = Convert.ToInt32(student.totalkunclaim())
    lkinderdone.Text = done.ToString
    lkinderdis.Text = distributed.ToString
    unclaim.Text = unclaim1.ToString
End Sub
Sub parasamodulestatus1()
    Dim student As New STUDENTCLASS()
    Dim total As Integer = Convert.ToInt32(student.totalstatus1())
    Dim done As Integer = Convert.ToInt32(student.totalkdone1())
    Dim distributed As Integer = Convert.ToInt32(student.totalkdistributed1())
    Dim unclaimm As Integer = Convert.ToInt32(student.totalkunclaim1())
    l11.Text = done.ToString
    l1.Text = distributed.ToString
    unclaim1.Text = unclaimm.ToString
End Sub
Sub parasamodulestatus2()
    Dim student As New STUDENTCLASS()
    Dim total As Integer = Convert.ToInt32(student.totalstatus2())
    Dim done As Integer = Convert.ToInt32(student.totalkdone2())
    Dim distributed As Integer = Convert.ToInt32(student.totalkdistributed2())
    Dim unclaimm As Integer = Convert.ToInt32(student.totalkunclaim2())
    l22.Text = done.ToString
    l2.Text = distributed.ToString
    unclaim2.Text = unclaimm.ToString
End Sub
Sub parasamodulestatus3()
    Dim student As New STUDENTCLASS()
    Dim total As Integer = Convert.ToInt32(student.totalstatus3())
    Dim done As Integer = Convert.ToInt32(student.totalkdone3())
    Dim distributed As Integer = Convert.ToInt32(student.totalkdistributed3())
    Dim unclaimm As Integer = Convert.ToInt32(student.totalkunclaim3())
    l33.Text = done.ToString
    l3.Text = distributed.ToString
    unclaim3.Text = unclaimm.ToString
End Sub
Sub parasamodulestatus4()
    Dim student As New STUDENTCLASS()
    Dim total As Integer = Convert.ToInt32(student.totalstatus4())
    Dim done As Integer = Convert.ToInt32(student.totalkdone4())
    Dim distributed As Integer = Convert.ToInt32(student.totalkdistributed4())
    Dim unclaimm As Integer = Convert.ToInt32(student.totalkunclaim4())
    l44.Text = done.ToString
    l4.Text = distributed.ToString
    unclaim4.Text = unclaimm.ToString
End Sub
Sub parasamodulestatus5()
    Dim student As New STUDENTCLASS()
    Dim total As Integer = Convert.ToInt32(student.totalstatus5())
    Dim done As Integer = Convert.ToInt32(student.totalkdone5())
    Dim distributed As Integer = Convert.ToInt32(student.totalkdistributed5())
    Dim unclaimm As Integer = Convert.ToInt32(student.totalkunclaim5())
    l55.Text = done.ToString
    l5.Text = distributed.ToString
    unclaim5.Text = unclaimm.ToString
```

```
    End Sub
    Sub parasamodulestatus6()
        Dim student As New STUDENTCLASS()
        Dim total As Integer = Convert.ToInt32(student.totalstatus6())
        Dim done As Integer = Convert.ToInt32(student.totalkdone6())
        Dim distributed As Integer = Convert.ToInt32(student.totalkdistributed6())
        Dim unclaimm As Integer = Convert.ToInt32(student.totalkunclaim6())
        l66.Text = done.ToString
        l6.Text = distributed.ToString
        unclaim6.Text = unclaimm.ToString
    End Sub
    Private Sub Button1_Click_1(sender As Object, e As EventArgs)
        PlayBackgroundSoundClick()
        refresh1()
    End Sub
    Private Sub Labelfemale_Click(sender As Object, e As EventArgs) Handles Labelfemale.Click, Label3.Click,
lkinderdone.Click, l33.Click, l22.Click, l11.Click, l66.Click, l55.Click, l44.Click, unclaim.Click, unclaim3.Click, unclaim6.Click,
unclaim5.Click, unclaim4.Click, unclaim2.Click, unclaim1.Click
    End Sub
    Private Sub Timer1_Tick(sender As Object, e As EventArgs) Handles Timer1.Tick
        LineShape2.BorderColor = Color.FromArgb(255 * Rnd(), 255 * Rnd(), 255 * Rnd())
        LineShape3.BorderColor = Color.FromArgb(255 * Rnd(), 255 * Rnd(), 255 * Rnd())
        LineShape4.BorderColor = Color.FromArgb(255 * Rnd(), 255 * Rnd(), 255 * Rnd())
        LineShape5.BorderColor = Color.FromArgb(255 * Rnd(), 255 * Rnd(), 255 * Rnd())
        LineShape6.BorderColor = Color.FromArgb(255 * Rnd(), 255 * Rnd(), 255 * Rnd())
        LineShape7.BorderColor = Color.FromArgb(255 * Rnd(), 255 * Rnd(), 255 * Rnd())
        LineShape8.BorderColor = Color.FromArgb(255 * Rnd(), 255 * Rnd(), 255 * Rnd())
        LineShape9.BorderColor = Color.FromArgb(255 * Rnd(), 255 * Rnd(), 255 * Rnd())
        LineShape10.BorderColor = Color.FromArgb(255 * Rnd(), 255 * Rnd(), 255 * Rnd())
        LineShape11.BorderColor = Color.FromArgb(255 * Rnd(), 255 * Rnd(), 255 * Rnd())
    End Sub
    Sub PlayBackgroundSoundClick()
        My.Computer.Audio.Play(My.Resources.click,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundScan()
        My.Computer.Audio.Play(My.Resources.scaner,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundSlide()
        My.Computer.Audio.Play(My.Resources.slide,
            AudioPlayMode.Background)
    End Sub
    Sub PlayBackgroundSoundrefresh()
        My.Computer.Audio.Play(My.Resources.refresh,
            AudioPlayMode.Background)
    End Sub
End Class
```

Formbackup:

```
Imports MySql.Data.MySqlClient
Imports System.IO
Public Class frmbackup
    Dim dbname As String
    Dim s As String
    Public con As New MySqlConnection("datasource=localhost;port=3306;username=root;password=;database=sces_db")
    Sub scan()
        Dim sc As String = "select directory from directory where id='" & 1 & "' "
        Dim cmd As New MySqlCommand(sc, con)
        con.Open()
        Dim dr As MySqlDataReader = cmd.ExecuteReader
        If dr.HasRows Then
            While dr.Read
                s = dr(0).ToString
            End While
        End If
        con.Close()
    End Sub
    Private Sub BunifuImageButton1_Click(sender As Object, e As EventArgs) Handles BunifuImageButton1.Click
        Me.Dispose()
```

```
    End Sub
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        Dim file As String
        sfdgejj.Filter = "SQL Dump File (*.sql)|*.sql|All files (*.*)|*.*"
        sfdgejj.FileName = "SCES-" + "Database Backup" + DateTime.Now.ToString("yyyy-MM-dd HH-mm-ss") + ".sql"
        If sfdgejj.ShowDialog = DialogResult.OK Then
            file = sfdgejj.FileName
            Dim myProcess As New Process()
            myProcess.StartInfo.FileName = "cmd.exe"
            myProcess.StartInfo.UseShellExecute = False
            myProcess.StartInfo.WorkingDirectory = "C:\wamp\bin\mysql\mysql5.6.17\bin\"       '-----
            myProcess.StartInfo.RedirectStandardInput = True
            myProcess.StartInfo.RedirectStandardOutput = True
            myProcess.Start()
            Dim myStreamWriter As StreamWriter = myProcess.StandardInput
            Dim mystreamreader As StreamReader = myProcess.StandardOutput
            myStreamWriter.WriteLine("mysqldump -u root --password= -h localhost ""sces_db"" > """" + file + """" ")
            myStreamWriter.Close()
            myProcess.WaitForExit()
            myProcess.Close()
            MsgBox("Backup Created Successfully!", MsgBoxStyle.Information, "Backup")
            Me.Close()
        End If
    End Sub
    Private Sub frmbackup_Load(sender As Object, e As EventArgs) Handles MyBase.Load
    End Sub
End Class
```

Frmconfig:

```
Imports MySql.Data.MySqlClient
Public Class frmconfig
    Dim stat As Boolean = False
    Dim db As New MY_DB()
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        Try
            db.getConnection.ConnectionString = "Server=" & TextBox1.Text & ";Database=" & TextBox2.Text & ";User ID=" &
TextBox3.Text & ";Password=" & TextBox4.Text & ""
            db.openConnection()
            MessageBox.Show("Successfully Connected to Server!", "Confirmation", MessageBoxButtons.OK,
MessageBoxIcon.Information)
            db.closeConnection()
            Button2.Enabled = True
            stat = True
            Exit Sub
        Catch ex As Exception
            ex.ToString()
        End Try
        stat = False
        MessageBox.Show("Connection failed!", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
    End Sub
    Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
        If stat = True Then
            My.Settings.host = TextBox1.Text
            My.Settings.dbname = TextBox2.Text
            My.Settings.usid = TextBox3.Text
            My.Settings.pwd = TextBox4.Text
            db.setconnection()
            Me.Hide()
            LOG.Show()
        End If
        If stat = False Then
            MessageBox.Show("Connection failed!", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error)
            TextBox1.Focus()
        End If
    End Sub
    Private Sub CheckBox1_CheckedChanged(sender As Object, e As EventArgs) Handles CheckBox1.CheckedChanged
        If CheckBox1.Checked = True Then
            TextBox4.PasswordChar = ""
        Else
            TextBox4.PasswordChar = "*"
```

```
        End If
    End Sub
End Class
```

Developer's Biodata

Name : Elvin D. Turtoga
Place of Birth : Cabasacan, Getafe, Bohol
Birth Date : July 23, 2000
Age : 21
Home Address : Cangmundo, Getafe, Bohol
Email Address : elvinturtoga@gmail.com
Religion : Roman Catholic
Citizenship : Filipino
Father's Name : Elizardizo L. Turtoga
Mother's Name : Virginia D. Turtoga

EDUCATIONAL BACKGROUND

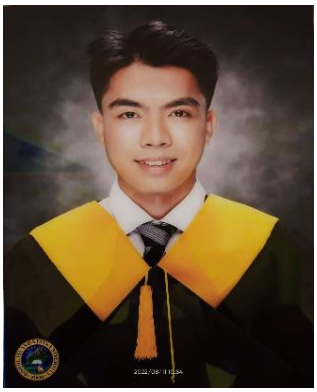
Elementary : Cangmundo, Elementary, School
Cangmundo, Getafe, Bohol
2011-2012

Secondary : Tulang National High School
Tulang, Getafe, Bohol
2017-2018

Tertiary : Bachelor of Science in Computer Science
Bohol Island State University- Bilar Campus
Zamora, Bilar, Bohol
2021-2022

Work Experienced : On The-Job Training
Bohol Island State University
August – September 2021

Developer's Biodata



Name	**:** John Robert P. Escobido
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Birth Date	**:** October 09, 199
Age	**:** 22
Home Address	**:** Sta. Cruz Sierra Bullones, Bohol
Email Address	**:** johnrobertesc18@gmail.com
Religion	**:** Roman Catholic
Citizenship	**:** Filipino
Father's Name	**:** Robert A. Escobido
Mother's Name	**:** Concepcion P. Escobido

EDUCATIONAL BACKGROUND

Elementary **:** Gabi Elementary School
Gabi Ubay, Bohol
2011-2012

Secondary **:** Virgin Del Pilar Academy
Poblacion Pilar, Bohol
2017-2018

Tertiary **:** Bachelor of Science in Computer Science
Bohol Island State University- Bilar Campus
Zamora, Bilar, Bohol
2021-2022

Work Experienced **:** On The-Job Training
Municipality of Sierra Bullones, Bohol
August – September 2021

Developer's Biodata

Name	**:** Melanie M. Sagosoy
Place of Birth	**:** Casilay, Sierra Bullones, Bohol
Birth Date	**:** March 4, 1999
Age	**:** 23
Home Address	**:** Riverside, Poblacion, Sierra Bullones, Bohol
Email Address	**:** msagosoy12@gmail.com
Religion	**:** Roman Catholic
Citizenship	**:** Filipino
Father's Name	**:** Euberto B. Sagosoy
Mother's Name	**:** Teodula M. Sagosoy

EDUCATIONAL BACKGROUND

Elementary **:** Sierra Bullones Central Elementary School
Poblacion, Sierra Bullones, Bohol
2012-2013

Secondary **:** Sierra Bullones Technical Vocational High School
Salvador, Sierra Bullones, Bohol
2017-2018

Tertiary **:** Bachelor of Science in Computer Science
Bohol Island State University- Bilar Campus
Zamora, Bilar Bohol
2021-2022

Work Experienced **:** ACMMD Cellshop
Sales Lady
Poblacion, Sierra Bullones, Bohol
April 2020- March 2022

CHOWKING Service Crew
Dao, Tagbilaran, City
July-August 2019

On The- Job Training
Municipality of Sierra Bullones, Bohol
August – September 2021

Developer's Biodata

Name	**:** Ruby Jean J. Villamor
Place of Birth	**:** Sta. Cruz, Sierra Bullones, Bohol
Birth Date	**:** April 28, 1999
Age	**:** 23
Home Address	**:** Dusita, Sierra Bullones, Bohol
Email Address	**:** rubyvillamor123@gmail.com
Religion	**:** Seventh Day Adventist
Citizenship	**:** Filipino
Father's Name	**:** Roberto A. Villamor Sr. (+)
Mother's Name	**:** Gina J. Villamor (+)

EDUCATIONAL BACKGROUND

Elementary	**:** Dusita SDA Multigrade School Dusita, Sierra Bullones, Bohol 2012-2013
Secondary	**:** Dusita National High School Dusita, Sierra Bullones, Bohol 2017-2018
Tertiary	**:** Bachelor of Science in Computer Science Bohol Island State University-Bilar Campus Zamora, Bilar, Bohol 2021-2022
Work Experienced	**:** On The Job Training Municipality of Sierra Bullones, Bohol August – September 2021