

**Student Attendance Monitoring System for the Tertiary Department of  
STI College Santa Rosa**

**A Capstone Project  
Presented to the Faculty of the  
Information and Communications Technology Program  
STI College Santa Rosa**

**In Partial Fulfilment  
of the Requirements for the Degree  
Bachelor of Science in Information Technology**

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## **EXECUTIVE SUMMARY**

A Student Attendance Monitoring System is an important asset a university should have. The ability to record and monitor attendance data with efficiency is one of the core characteristics of a successful university. A good student attendance monitoring system helps a university address problem with its students and help them design their internal workflow to maximize the performance and capability of its staff and students.

STI College Santa Rosa Tertiary Department used to have a digital student attendance monitoring system but due to many limitations and flaws in the system, the school switched back to using manual attendance gathering.

Manual attendance gathering raises some issues especially for a university because it is unreliable, slow, and impractical.

Given the numerous available devices in STI College Santa Rosa, the researchers developed a Web-based Student Attendance Monitoring System. A web-based system is flexible and is easy to implement. It works in most devices with the minimum required hardware.

The developed web-based application provides real-time reports and data forecast that help STI College Santa Rosa admin and staff address students issues and make a timely decision. Having a Web-based application also promotes a fast, reliable, and convenient Attendance Monitoring System for STI College Santa Rosa.

## APPROVAL SHEET

This capstone project titled: **Student Attendance Monitoring System for the Tertiary Department of STI College Santa Rosa** prepared and submitted by **Jan Amiel M. Arceo, Alexander P. Saga, and Mitch A. Serrano**, in partial fulfillment of the requirements for the degree of Bachelor of Science in Information Technology, has been examined and is recommended for acceptance and approval.



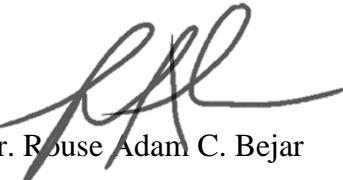
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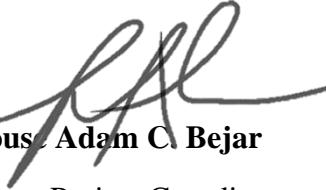
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## INTRODUCTION

### **Project Context**

STI College Santa Rosa College Department used to have a mobile application for conducting class attendance but due to the numerous limitations of the system, the professors of STI College Santa Rosa switched back to manual attendance gathering.

The Attendance Monitoring System in the Tertiary Department is divided into two parts, the gate attendance, and the class attendance, however, the gate attendance is not strictly observed thus removes the purpose of having an RFID Embedded ID's which all students in the campus have. The developers see this as a potential risk in the campus security, and a factor for poor student attendance performance. STI College Santa Rosa current attendance monitoring system does not provide data or reports about a student's attendance performance to concerned departments like the Guidance Office. Because of this, a student's attendance is not thoroughly monitored and so, the concerned departments cannot address the student's attendance performance issue because of the limited data given to their department.

The flaw in the current system also raises a security concern as RFID embedded ID's which is used to tap-in and out of the campus by the students was rarely used in the College Department. From the school year this research is conducted, S.Y. 2020-2021 2nd semester, there are 824 students enrolled in the tertiary department of STI College Santa Rosa, the school security guard only relies on their memory on who is and who is not a student in the school, given the number of students enrolled in STI College Santa Rosa, the security guard is prone to human error. Outsiders have an easy way to get inside the campus which breaches the school security.

With the current online class setup, professors of STI College Santa Rosa use Microsoft Teams to automatically generate attendance reports, but this too does not provide an overall statistic or reports to concerned departments as mentioned on the previous paragraph.

STI College Santa Rosa has the resources for a better campus security, but it is not running in its full potential. The developers developed a system that integrates all their security devices in one application to address the issues mentioned in the previous paragraphs. The goal of the application is to use available resources to generate reports from the data gathered from the input devices that is already available in the campus (e.g. RFID Readers, Smart Phones).

### **Purpose and Description of the Study**

The purpose of this study is to improve STI College Santa Rosa's current student attendance monitoring system, addressing issues mentioned in the previous paragraphs.

The developers developed an application that will be accessible for all the devices available in the campus. To achieve this, the developers created a web application so that it can be accessible to any device that has a browser. This application will link all the devices in the campus with maximum compatibility because a web application is responsive thus, it is able to operate in any devices such as smartphones and desktop which are the most common type of devices available in STI College Santa Rosa. The developers used a web service such as virtual live server and web hosting that enables the application to run independently to any physical devices in STI College Santa Rosa which also makes the project cheap to implement. The data gathered from the users is used to generate helpful and relevant reports for the Faculties and Staff of STI College Santa Rosa. With the reports generated by the system, STI College Santa Rosa would be able to track their student's attendance performance in real time and so that any concerns regarding it can be addressed timely by the concerned departments.

To address the problem with campus entrance security, the system has a feature where the campus guard can see the student information like the student's full name, class name, and picture in the computer screen once the student tap-in and tap-out in the campus. In this way, the campus guard would be able to verify intruders and those who cheat in attendance by tapping-in the ID of their friends or classmates.

The developers considered this project given that STI College Santa Rosa has the technology and is capable to deploy this type of system.

## **Objectives of the Study**

### **General Objective:**

To design, develop, and implement a web application to improve the **current** Attendance Monitoring System in STI College Santa Rosa's Tertiary Department.

### **Specific Objectives:**

- 1. To create a module that integrates devices used for conducting student attendance in STI College Santa Rosa.**

Device integration is important to track student attendance thoroughly. The developers developed a system that a user would be able to use in any device that has a browser like SmartPhone, Laptop or Desktop, with this, communication within different devices is borderless and easier while also making attendance monitoring for the user more convenient.

- 2. To create a module to add another layer of security in the college department.**

STI College Santa Rosa Tertiary Department does not have an active gate attendance system, the developers think that this is a factor that greatly affects the campus security. By creating an application that also have a gate attendance system, the developers are hopeful to solve the security issues in the Tertiary Department of STI College Santa Rosa.

- 3. To create a module that generates attendance reports to provide the necessary data needed by different departments concerned to student's attendance.**

Report generation is an important feature to have in a Student Attendance Monitoring System because with this, it is easier for the user to identify different elements in the data and so data forecasting is easier and convenient.

All the objectives mentioned above were created with careful analysis and consideration to the client.

## **Significance of the Study**

The main beneficiary of this study was the management of STI College Santa Rosa. This study shall tackle issues within the campus and how those issues can be addressed.

The system developed by the developers helps the faculty and the admin staff of STI College Santa Rosa to track their student attendance with ease and convenience.

With the developed system, the developers addressed student attendance performance by generating timely and relevant attendance reports to concerned departments so that any issues related to the student's attendance can be addressed in time and with convenience for the faculty and the staff.

For the developers, this study helped them gain new knowledge and experience relevant to their profession.

## **Scope and Limitations of the Study**

The developed system for the Tertiary Department of STI College Santa Rosa works and function with the following feature:

RFID Reader/Writer Module:

This module provides the tap-in and tap-out data for the system. This module is also responsible for linking student ID and professor information to the system database uploaded in the Cloud. This module is used to track when the student and the professors entered the campus and when they left.

Log-in Module:

This Module is responsible for user access. The developed system will have 4 different account types, each with different function and privilege. The 4 different account types are as follows.

1. Administrator Account: This account is responsible for creating/removing user accounts in the system. This account will also handle the privileges to be given to existing users. Since the application will be published on the web, the professors of

STI College Santa Rosa are able to access the system anytime and anywhere. For data accuracy concerns, the developers implement a security feature on the application that will give the administrator account the ability to require the faculty account to tap-in to the campus first before they can conduct a classroom attendance.

2. Faculty Account: This account is used by the professors to monitor their class attendance. Data and reports provided will only be specific to the classes the professor is teaching. The timestamp to when the faculty log in to the system will be considered as their time-in.
3. Guidance Account: This account is for the Guidance Office and the Department Heads. The data and reports generated in this type of account will come from the Faculty Account.
4. Gate Account: This account is provided for the tap-in and tap-out computers at the entrance of STI College Santa Rosa. This account functions as a bridge to where the RFID Reader/Writer Module and the developed system communicates.

#### File Maintenance Module:

This module is used by the account with the highest authority in the system. With this module, the user can do basic file actions like View, Add, Edit, and Delete, to manage data in the system.

#### Academic Year Maintenance Module:

This module allows the administrator to setup an academic year. After an academic year ends, all schedules, and subjects available in the system within a given period will be archived.

#### Report Generation Module:

This module gives the user attendance reports relevant to their privilege or role. Attendance reports can be generated in excel and pdf format. The generated attendance reports will rely on which data were available when the user generated the report.

### **Limitations:**

This study is conducted and made only for the Tertiary Department of STI College Santa Rosa. Decision in creating the system associated with this study is a product of data that is gathered by the developers from Tertiary students and faculty of STI College Santa Rosa thus the functionality of the system is only relevant, but not limited to the Tertiary Department of STI College Santa Rosa.

The developed system is limited and accessible only for the Faculty and Staff of STI College Santa Rosa who have an account in the system.

Given that the developed system is a web-based application, it is only accessible through the internet, and the user is required to have an internet connection to use its service. The performance of the system is reliant on the internet connection speed of the user.

The developed system will run independently and will not be needing any resources that is currently used in STI College Santa Rosa.

## **REVIEW OF RELATED LITERATURE/SYSTEMS**

### **Review of Related Literatures**

In most educational institutions the attendance is taken manually. It is not only time consuming, but it is also not secure, unreliable and it can be lost. Some institutions are using punch card for attendance while this will be difficult for teachers to keep track of the large number of students because by using punch card, a student can help the other students or his/her friend to punch their card even the other student may be absent or come late in class, so it is not reliable. To overcome these problems the best possible solution is to develop a Web based system. A Web Based system is fully responsive where a user can use it in mobile, tablets and different computer systems. In this system records are kept safe and secure and the attendance information of particular or all students of particular class can be accessed easily and is not time consuming because the report is generated automatically. (Hassan, 2015)

Attendance is a mandatory regularity of each organization. Manual attendance marking may be a troublesome, and time overwhelming work. It's vulnerable to error and manipulation to happen. (S. Matilda & K. Shahin, 2019)

All academic institutions have certain criteria for students regarding their attendance in class and examinations. The importance of student attendance in class cannot be over emphasized, as a result of this, administrators and lecturers of various academic institutions are concerned with the attendance irregularities. In the process of admitting students into an examination hall in most Nigerian institutions, 70% of attendance must be met and also considered for grade computation, therefore there is a huge need for monitoring and recording students' attendance. (Saheed, Hambali, Adedeji, & Adeniji, 2016)

Manual attendance monitoring process itself has many flaws, while switching to a computerized system with the goal to make the process easier and more secure would take a little bit of investment for the client, A cost-effective investment as the benefits they will get from a computerized system would surely improve the overall Attendance Monitoring Process.

Developing a Computerized System would need to take a few factors into consideration, that includes the current technology state of the client, the integration of data, and how the system would be implemented. To keep the requirements on technology for the client as minimal as possible, the best and most effective way is to implement a web-based system. A Web-system does not need expensive hardware to run because its resources are coming from the cloud and it will only take a small amount of resources from the client's device. Given that the System is Web-based, it is also most likely to run in many different devices as mentioned in the study conducted by Hassan. As long as the device has a browser and an internet on it, the system can be accessed and be used. This factor removes the need for the client to buy new computer systems in order to implement the system thus it also makes implementing a Web-based system a much cheaper option.

## **Related Studies and/or Systems**

### **Local Studies**

Today, software is an essential way and innovative solution through which most of the organizations whether private or public use in their system processes to have an efficient and effective information management. Furthermore, the integration of the Radio Frequency Identification (RFID) technology in various system processes is widely used nowadays to build a smart system that can be used for effective identification, monitoring and security of data. (Isaac Morallo, 2015, p. 2)

Many industries and institutions are already using biometric in monitoring the attendance of employees which really saves time and prevents time theft that leads to cost saving. Biometric technology offers advanced verification of employees because it identifies people through physical measurements of unique human characteristics such as fingerprints. Employee attendance verification is a major use of biometrics today.

Furthermore, biometric is the tool which measures an individual's unique physical or behavioral characteristics to recognize or authenticate their identity and it is the most secure and convenient authentication tool. (Jake Maggay, 2017, p. 67-68) According to Gabaig, Pangelinan, Papat-iw, Pasing, and Halover (2019, p. 5), School

absenteeism is a complex and pervasive problem that negatively impacts a significant number of students. Poor academic performance, increased family conflict, and potential maltreatment from lack of adult supervision are negative outcomes which are a variety of risks with the result of a student with poor attendance problems. The problems with the traditional attendance system are most often the lack of necessary resources to manage these problems effectively. A web-based attendance has features that meet most academic system's needs and requirements. This includes student registration, enrolment, grade management and other modules that the school needed to operate.

## **Foreign Studies**

Student management is becoming a basic necessity in education in the modern-day age, and it is to automate all functions performed on a daily basis in college. (Shravya Reddy, Shashi Reddy, & Veena G, 2019, p. 150)

The transformation of manual attendance monitoring systems to automated RFID based automated systems is one of many examples of what rapid technology and innovation has driven. Any way to make it easier and faster like a monitoring system is possible with the help of technology. Innovation has influenced people's work from research, medical operation, monitoring, and many more are now entrusted to computer technology.

According to Kamarulzaman (2019), smartphones have become a day to day use for most people. Smartphones have many functions from entertainment, communication, recording devices, browsing the internet and much more.

The Android OS (Operating System) is a widely and commonly used OS for smartphones, it is an open source software that is affordable to students. The use of smartphones for taking attendance by the lecturer can reduce and save time significantly.

## **Synthesis**

The aforementioned statements above show that the manual attendance system is time consuming, unreliable, and most of the time unsecured and this has been already observed in the past studies. The study's focus is to improve the current attendance system and the

campus security, and the studies and literature presented in this chapter might help in the interpretation of the data that will result from the research regarding the student attendance monitoring system.

“LYCEUM OF THE PHILIPPINES UNIVERSITY – LAGUNA STUDENT ELECTRONIC ATTENDANCE AND LOGGING SYSTEM (LPU-LAGUNA SEALS)”, is like the developer’s attendance system with the use of an RFID system and the use of web for security and data storage.

The research “BIOMETRIC ATTENDANCE MONITORING SYSTEM OF CAGAYAN STATE UNIVERSITY – LASAM CAMPUS, PHILIPPINES”, its relation to the developers developed system is the improvement of an already existing system. This research only difference with the developer’s system is that it uses a biometric/fingerprint system.

Regarding the “Student Management System”, the research differs from the developer’s developed system because it is a software-based system that aims to lessen the paperwork in regard to student management systems.

“Student Attendance System using QR Code”, is relevant to the developer’s developed system that it aims to remove the manual attendance system. The difference is that the system aims to develop an attendance system with the use of a QR code system.

In Regard to “WEB-BASED ATTENDANCE MONITORING SYSTEM FOR UNIVERSITY OF BAGUIO SENIOR HIGH SCHOOL”, the research is relevance to developed system that it uses the web to store the data that the system will generate to help the Principal/Office Staffs, Class Advisers, Subject Teachers, students and parents.

## **TECHNICAL BACKGROUND**

### **Overview of Current Technologies to be used in the System**

Attendance Monitoring is highly recommended in a setup where the management needs to monitor their people, daily or timely if they are being present at a place or an event. It is a way to consistently view people working hours to process a certain report. Its tangible numbers support the decision of the management about a specific action in the area. These numbers can be used for generating reports for analysis or overview of a certain area e.g. student individual timetable, workforce demand, work hours of an employee, etc. Somehow, traditional attendance monitoring is deprecated and can cost a lot of time for implementing and accessing reports.

STI College Santa Rosa used a technology-based attendance monitoring system where they implemented automated features where they used RFID-based student id to be tapped on an RFID Reader on the schools' gate. The purpose of this technology is for the student to attend to themselves on the school premises simultaneously by simply tapping their ID Card on an RFID Reader. STI College Santa Rosa also implemented a mobile-based attendance for the school faculty and professor. The purpose of having a mobile-based attendance is for their faculty and professor to achieve convenient attendance monitoring. Schools are adapting to this technology to have better and convenient attendance monitoring. Having a technology-based Attendance Monitoring System helps an institution such as STI College Santa Rosa to monitor their students' and faculty members' presence in a certain place.

The developers conducted a system development based on STI College Santa Rosa's existing system for attendance monitoring to enhance and achieve a more convenient attendance monitoring system for the school's benefit. The system development is based on a Web-Based Application where all the forms and processes are on the internet, so the beneficiary can use the application based on their available devices and achieve a more dynamic system.

Web-Based Application or Website consists of a group of World Wide Web pages usually containing hyperlinks to each other and available online for an individual, company, institution, etc. A static website has web pages stored on the server in the format that is sent to a client web browser. It is primarily coded in Hypertext Markup Language (HTML); Cascading Style Sheets (CSS) are used to control appearance beyond basic HTML. Images are commonly used to create the desired appearance and as part of the main content. Audio or video might also be considered "static" content if it plays automatically or is generally non-interactive. This type of website usually displays the same information to all visitors. A dynamic website changes or customizes itself frequently and automatically. Server-side dynamic pages are generated "on the fly" by computer code that produces the HTML (CSS are responsible for appearance and thus, are static files). A site can display the current state of a dialogue between users, monitor a changing situation, or provide information in some way personalized to the requirements of the individual user. For example, when the front page of a news site is requested, the code running on the web server might combine stored HTML fragments with news stories retrieved from a database or another website via RSS to produce a page that includes the latest information. Dynamic sites can be interactive by using HTML forms. Web-Based are usually uploaded online or within a network for the beneficiaries' convenience, and within these, the system will be readily available anytime. Web-based are uploaded in the cloud where the beneficiaries can access remotely everything over the Internet and within these, it may lessen the expenses due to less hardware consumption.

The developers also integrated a Radio-Frequency Identification system in which the two automatically identify and track tags attached to objects. An RFID system consists of a tiny radio transponder, a radio receiver, and a transmitter. When triggered by an electromagnetic interrogation pulse from a nearby RFID reader device, the tag transmits digital data, usually an identifying student identification, back to the reader. The benefits of having this technology equipped on the system are to lessen storage consumption and enhanced storage capacity. This system has also been developed in a way that is easy to understand and takes instructions from the user.

The developers used a cloud-hosted NoSQL Database that lets the application store and sync data between the users in real-time. Cloud platform refers to the operating system and hardware of a server in an Internet-based data center. It allows software and hardware products to co-exist remotely and at scale. NoSQL databases (aka "not only SQL") are non-tabular and store data differently than relational tables. NoSQL databases come in a variety of types based on their data model. The main types are document, key-value, wide-column, and graph. They provide flexible schemas and scale easily with large amounts of data and high user loads. Google Firebase is one of the infamous cloud-hosted NoSQL databases equipped with different features that allow it to run on any system at full functionality. Google Firebase features include Realtime Database, Hosting, Authentication, and Storage. These are the primary features mostly used of the web application, mobile-based application, and different kinds of systems. A real-time database is a type of cloud-based NoSQL Database that stores data from the cloud in the form of nested lists. A hosting allows the system to store its primary files; this includes markup, stylesheet, and scripting files; which are used to run a web application from the cloud. Authentication is a type of security feature of Google Firebase in which users can manage stored credentials for the user to authenticate within the application. Storage is used to store non-text-based files from the system in which the users uploaded images, music, and documents.

## **Calendar of Activities**

In the creation of the capstone project, the developers divided the work into different phases to have a systematic creation of the documents. The beginning where the planning and Preparation. In this phase, the developers plan of everything. Starting from Title Brainstorming where the developers pick ideas, think of a solution for a problem where they can apply their skills, and innovate existing technology so they can come up with a feasible project applicable for these capstone projects. In this phase also included finding a client where the developers can apply and implement the chosen capstone project in real-life situation.

The developers need to gather data from the clients, they conduct interviews and surveys, and study their existing software technology, about the client's current system. This includes the system developed by the other researcher and the technology implemented in their system. Also, the developer's included the discussion of the trends on the technology that can be used to implement in the system. This also contains overview of the current technologies to be used in the system which includes what technology the developer's will be using.

The developers then started the software development stage. Along with the programming language they know and the software IDE they used; the developers slowly add the function to the system to achieve its goal. Then after the integration of the function, the developers create the software database in which the data will be stored. Firebase Database includes the database, storage, and hosting of the system which is used by the software. Along with these, the developer's started to upload the database to the cloud and integrate the hosting functionality of the system to unlock its ability to run online. Lastly, the developer's integrated the hardware requirements of the system. The hardware requirement of the system was to include RFID technology. After the integration of the modules on the system, the developers test the system and get ready to be released and submit to the client.

## Gantt Chart of Activities

MONTH	FEBRUARY				MARCH				APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER				OCTOBER				NOVEMBER					
ACTIVITY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
Number of weeks	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
<b>Planning and Preparation</b>																																										
Topic Discussion		2	3																																							
Client Search			2																																							
Brainstorming for Project Title			2	3																																						
Title Defense				2	3	4																																				
Study Current System of the School						2	3	4																																		
Propose Project							2	3																																		
Waiting for Project approval								2																																		
<b>Data Gathering</b>																																										
Create interview questionnaire								2	3	4																																
Interview								2	3	4																																
<b>Capstone Documentation</b>									2	3	4																															
Study and analyze survey data to determine the problem and formulate objectives of the study.								2	3	4																																
Gather online resources for different literature and studies related to the topic.								2	3	4																																
Determine the minimum hardware and software requirement needed for the proposal.								2	3	4																																
<b>Software Development</b>																																										
Analyze possible software function									2	3	4																															
Creating Flowchart									2	3	4																															

**Table 1:** Gantt Chart of Activities

## Resources

Hardware Requirements and Specification		
Requirement	Description	Purpose
Computer Processor	At least Intel Pentium Series or AMD A-Series – Latest Generation. At least 2.4 GHz and 4 cores for Desktop Computer	Interprets program's instruction and use to deliver information. It allows the computer to complete tasks that users request
Installed Memory (RAM)	4GB Memory – Highest Possible Memory for Desktop Computer 2GB Memory – Highest Possible for Mobile Devices	Used to save volatile data about programs that are currently open, so the CPU has to spend less time in fetching data and do more calculation
Disk drive	At least 500GB Memory Hard Disk Drive or At least 500GB Solid-State Drive	Use as a storage device which the users allowed to read, write, delete, and modify data. In manage input/output(I/O) operations
Keyboard	Standard functional keyboard	An input device used to enter characters and function by pressing buttons or keys.
Mouse	Standard functional mouse	Handheld hardware serves as an input device that controls a cursor on a GUI. Use for selecting files.
Touch-Screen Devices	Mobile Devices	A touch enabled devices which receives user input through touch panels.
Monitor	Wide Screen Monitor at least 1024 x 768 to a higher resolution display	Used to display text and graphics produced by a computer program and to provide a visual interface

RFID	13.56 Mhz 125Khz Usb RFID Card Reader	A transceiver device used for contactless communication and identification.
RFID Card	125kHz proximity PVC card	Consists of a unique tag which sends to RFID for detection purpose

**Table 2:** Hardware Requirements

Software Requirements and Specification		
Requirement	Description	Purpose
Operating System	Microsoft Windows Series. Windows 7 to Windows 10 Generation  MacOS Series  Android OS Series. Android 4 (Jellybean) to Android 11 (R)	It manages the computer's memory and processes and all of its hardware and software. It encodes user input to an understandable command to a hardware
Programming IDE	Integrated Development Environment e.g Visual Studio Code Bootstrap Studio	Used to improve developer productivity and convenience. It manages software files used to develop a system software.
Browser	Google Chrome, Firefox, Microsoft Edge, Opera Mini	Browser are used to access the internet with the use of http addresses.
Database Management System	MySQL, Firebase Realtime Database	It is used to manage large scale data from a software device which is later used for software application
Cloud Hosting	Google Firebase Hosting, Heroku, Netlify, GoDaddy	It uses to store software applications in a cloud for convenience and allows software to run the program by the use of the internet and cloud.

Microsoft Word	Microsoft Word is a word processor developed by Microsoft.	Used to create necessary documents and letters to complete the documentation of this study.
Microsoft Powerpoint	Microsoft PowerPoint is a presentation program	Used to create a visual presentation of the proposal.

**Table 3:** Software Requirements

## **Chapter IV**

### **Methodology, Results, and Discussion**

In this chapter the approach used in developing the system is discussed to better understand the needs and purpose of the system.

#### **A. Requirement Analysis**

All information regarding the user's desires is gathered through interviews and surveys. To determine the system's functional needs the interview procedure takes place over the course of a week in a series of meetings between the developers and the management of STI College Santa Rosa. Use case for the program to be developed is created from the result of this procedure.

The developers provide STI College Santa Rosa tertiary department a better and improved student attendance monitoring system. The developed system provides real-time and personalized reports to the professors, guidance, and the dean about the student attendance performance individually or generally, giving them the power to track students easily. The developed system is also packaged with a Gate attendance system which the tertiary department of STI College Santa Rosa does not have. Having this in the system provides an extra layer of security for STI College Santa Rosa. It helps the security guards in the campus to identify intruders and unauthorized entry in the campus.

Adopting to Work-from-home setup, the developed attendance monitoring system enables the system to be used to either face-to-face setup or work-from-home setup. This is achieved by giving the users the permission to use the system outside the campus. Since the system is web-based, it is accessible anywhere as long as the user have a device and a working internet connection. The system does not need any installation too as it can be used by anyone just by accessing it through a web browser.

To improve the current student attendance monitoring system of STI College Santa Rosa, the developers take the following steps.

### *Requirements*

In this phase the developer's gather system requirements from the survey questionnaire answered by STI College Santa Rosa staff and employees. The developers also look at the current attendance monitoring of STI College Santa Rosa to identify issues on it and put as an addition to the system that is being proposed. In this phase the standard for the system is set and the resources needed are identified.

### *System Design*

After the requirements are gathered, the developers now design the system based on the requirements, making sure all the requirements are met and satisfied.

### *Programming*

Now the real work begins. The developers will now work on the backend of the system to make things functional. In this phase database is setup and APIs are implemented in the system.

### *Testing*

Data are encoded into the system and system is put to work via a soft launch. System features and usability is tested, and issues found during the process is fixed or improved.

### *Deployment*

Finally, the final phase of the system development. In this phase the system is handed over to STI College Santa Rosa. Manual on how to operate and maintain the system is handed over to STI College Santa Rosa.

## B. Requirements Documentation

21, May 2021  
Mrs. Madelyn B. Navalvo  
STI College Santa Rosa College Dean  
Francisco A. Canicosa Ave, Balibago, Santa Rosa, 4026 Laguna

RE: Permission to Conduct Research Study

Dear, Mrs. Madelyn B. Navalvo

We, the third-year students of STI College Santa Rosa pursuing a degree in Bachelor of Information Technology, are currently enrolled in Capstone Project 1. We are writing to humbly request permission to conduct a research in STI College Santa Rosa Tertiary Department. Our research entitled **Student Attendance Monitoring System for the Tertiary Department of STI College Santa Rosa** have a goal to identify issues and propose a possible solution for the problem in the current attendance monitoring system used in the tertiary department of STI College Santa Rosa.

Your approval to conduct this study will be greatly appreciated.

Respectfully yours,

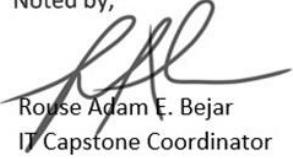
The researchers

  
Mitch A. Serrano

  
Alexander P. Saga

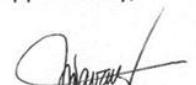
  
Jan Amiel M. Arceo

Noted by,

  
Rouse Adam E. Bejar  
IT Capstone Coordinator

  
Mr. Alexie A. Bustamante  
IT Capstone Adviser

Approved by,

  
Mrs. Madelyn B. Navalvo  
STI College Santa Rosa College Dean

**Figure 1.** Developer's Letter to STI College of Santa Rosa.

Name and signatures of the IT Capstone Coordinator and IT Capstone Adviser is different from the originally submitted document to the client. The reason for this is that during the transition from Capstone 1 to Capstone 2, the IT Capstone Coordinator *Engr. Cirilo S. Pagayunan Jr.* switched place with another capstone coordinator and now *Mr. Rouse Adam E. Bejar*. While the IT Capstone Adviser, *Mr. Paul Alvin Morada* is no longer connected to the school thus the developers chose another Capstone Adviser and is now *Mr. Alexie A. Bustamante*.

Figure 1 shows the agreement between the researchers and the client. The researchers identified issues and formulated a solution to the current Student Attendance Monitoring System in STI College Santa Rosa.

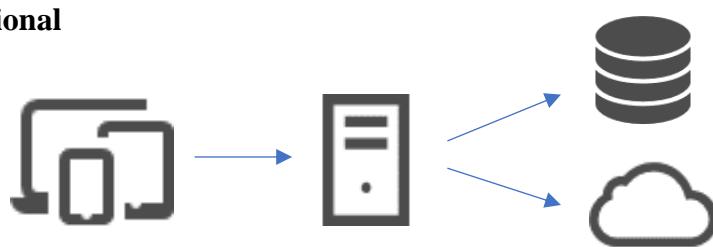
The survey done by the developers shows the needs and the scale of the client for a student attendance monitoring system. The result of the survey helps the researchers formulate a plan on what system is to make.

Given the terms and conditions on the survey result, the researchers come up with the following design and features to satisfy the client needs.

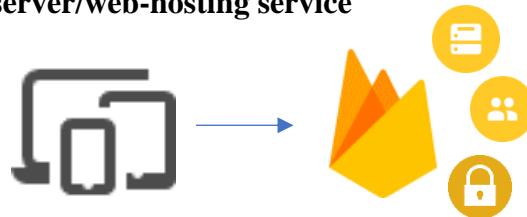
### **Application/System Features**

- A) From the client's concern on security on implementing the system locally, the researchers make the system go online with the help of a live-server and web-hosting services. This service is provided and associated with Google, a well-known technology giant, to make sure the highest level of encryption is guaranteed.

#### **Traditional**



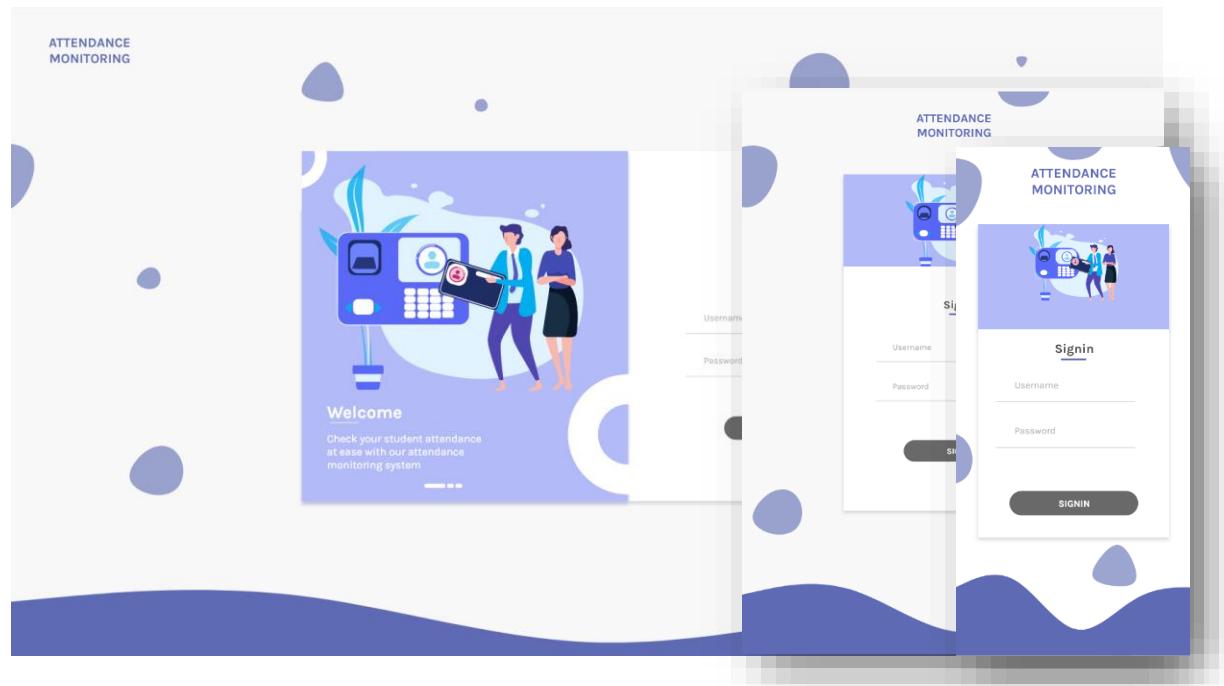
#### **Google Live-server/web-hosting service**



**Figure 2.** Traditional vs. Google live-server/ Web-hosting service.

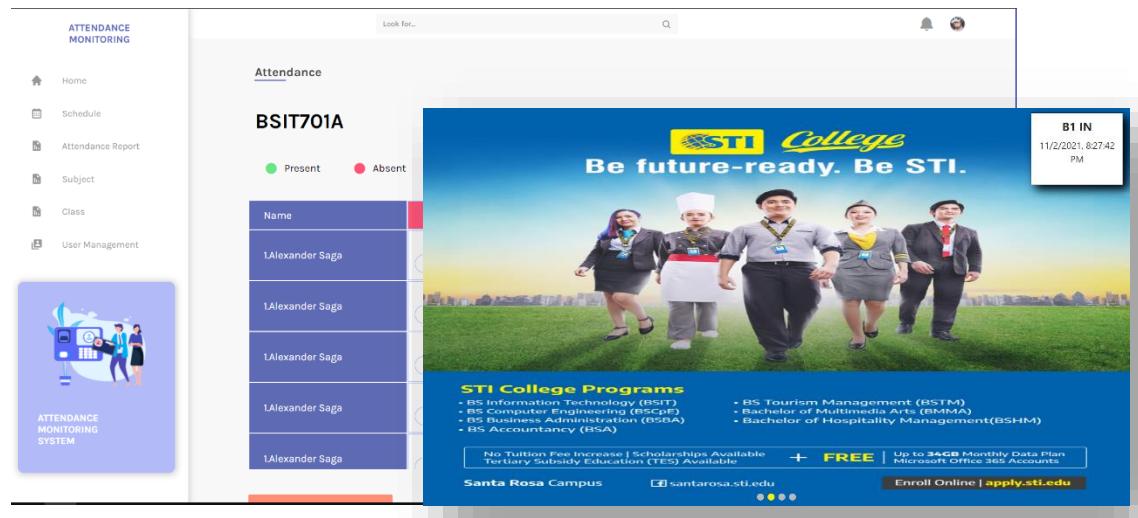
The benefit of using Google service as server compared to traditional servers is that it skips the usage of a physical server, and it directly stores data in clouds which makes data secure and travel faster by cutting the distance it must travel.

B) For convenience and accessibility, the researchers created the system with HTML and CSS. Both used to create a website. The researchers chose this because it provides the user's device max compatibility possible by enabling access to multiple devices specially desktop computers, laptop, and smart phones which are the most used devices in STI College Santa Rosa.



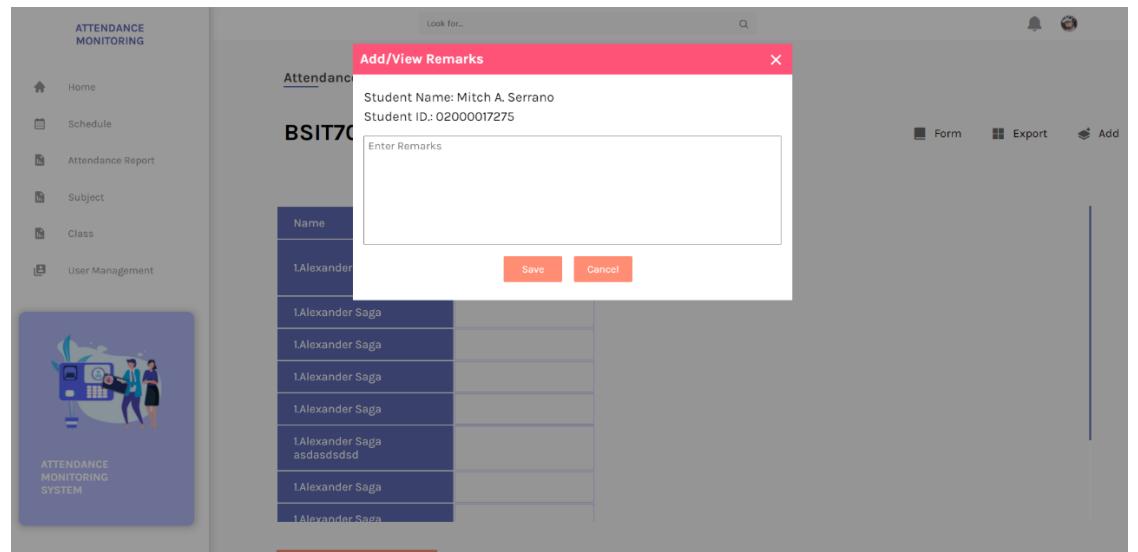
**Figure 3.** Desktop, Tablet, and Mobile view of the system.

C) The researchers also put Gate attendance and Room attendance in one system to make use of the RFID system in STI College Santa Rosa Tertiary Department. This feature will be for both the student and professors of STI College Santa Rosa.



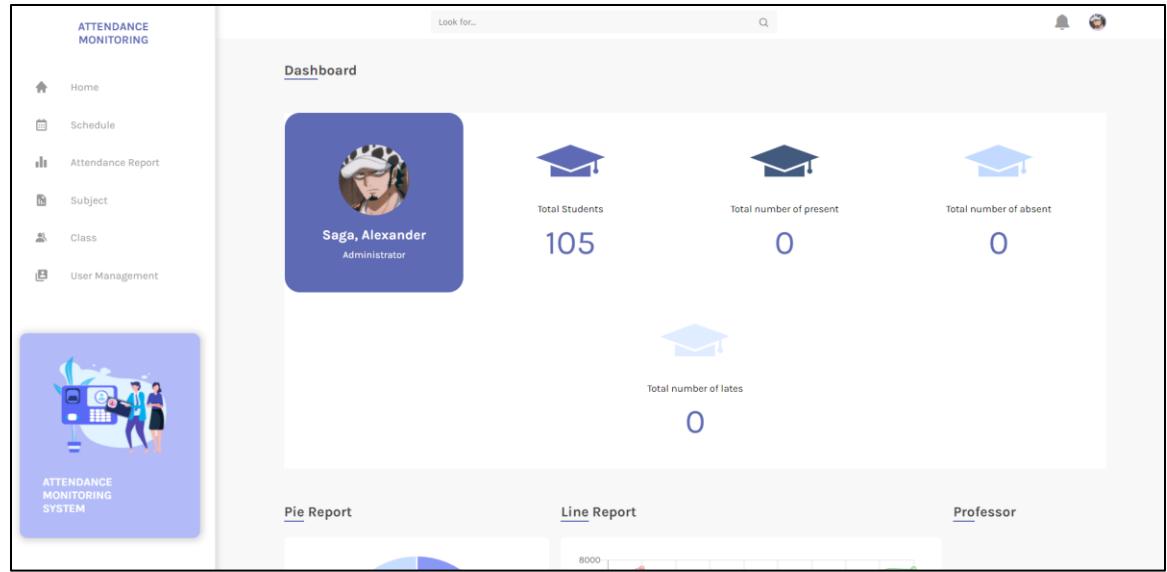
**Figure 4.** Room attendance and Gate attendance.

- D) The room attendance has a remarks option where the professor can provide remarks on student's attendance status.



**Figure 5.** Remarks on Student Attendance.

- E) STI College Santa Rosa dean is provided with the administrator account which will be able to monitor everyone in the system including all the professors and students that are registered in the system.



**Figure 6.** Administrator Dashboard.

- F) Aside from having an administrator account, the system will have a separate account for faculty and guidance as well. Each account type has different type of permission. What a user can do in the system is limited to the user type they are assigned to. The administrator, however, have the full control of the system and may assign a user with a specific account type to do specific tasks such as adding, editing, and deleting students, and subject information.

The screenshot shows the 'Manage User' interface. The left sidebar is identical to Figure 6. The main area is titled 'Manage User' and shows a placeholder for a user picture with the text 'Select a picture'. A dropdown menu labeled 'Student' shows 'Select User Type' with options: Student (selected), Faculty, Gate, and Card ID. Below this are input fields for 'Last Name', 'First Name', 'Middle Name', 'Contact Number', 'Email', and 'Address'.

**Figure 7.** User Management Interface.

A student account is created to make a student record in the system. A student account does not need to log-in to the system. It is only created for record purpose. A faculty account is given to faculties. It can view and record student attendance. This account purpose is to gather student attendance record but is not limited from adding new student information in the system. A log-in account is given to each faculty account created to be used by the user to log-in to the system.

While the gate account is created to be logged in to campus entrance computers to record the in and out records of student and faculty entering and leaving from the campus gate.

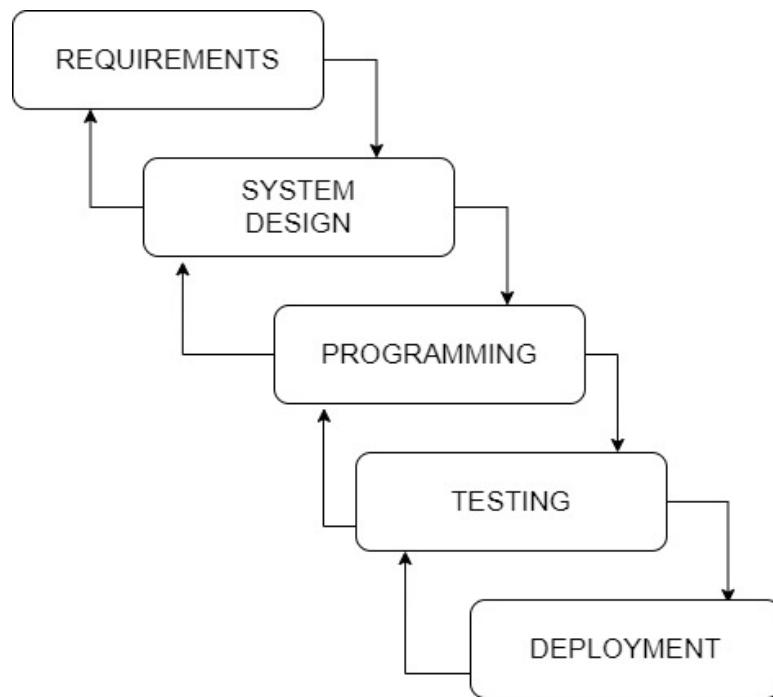
- G) To complete a Student Attendance Monitoring System, the system should have a feature where the user may add a subject. This feature is only available to Administrator account.

The screenshot shows the 'Add Subject' page of the Attendance Monitoring System. On the left, there's a sidebar with icons for Home, Schedule, Attendance Report, Subject (which is selected), Class, and User Management. Below this is a logo for 'ATTENDANCE MONITORING SYSTEM' featuring two people at a computer. The main area has a search bar at the top right. The 'Subject' section contains fields for 'Subject' (with 'SUB1000053' entered), 'Subject Name', 'Subject Description', 'Subject Location', 'Subject Start Time' (set to '---'), and 'Subject End Time' (set to '---'). There are dropdown menus for 'Select Day' and 'Select Professor'. At the bottom is a blue 'Add' button.

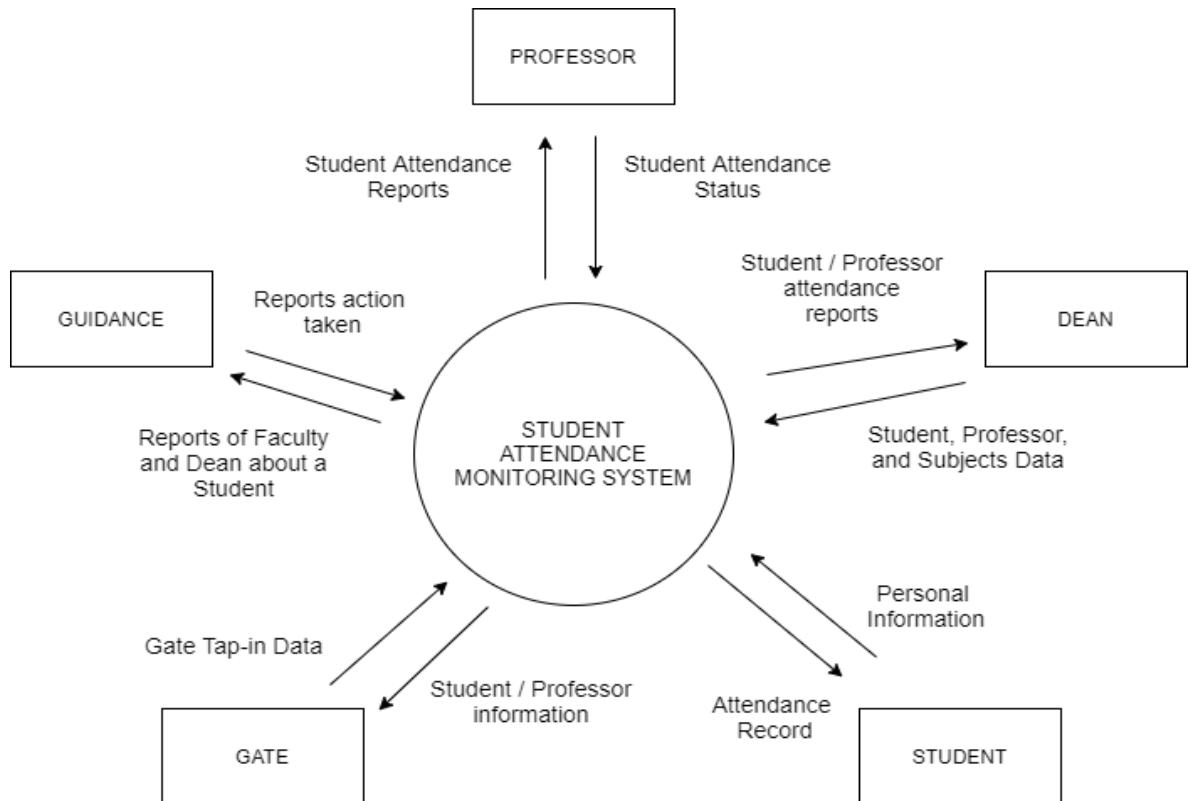
**Figure 8.** Add subject interface.

### C. Design of Software, System, Product, and/or Processes

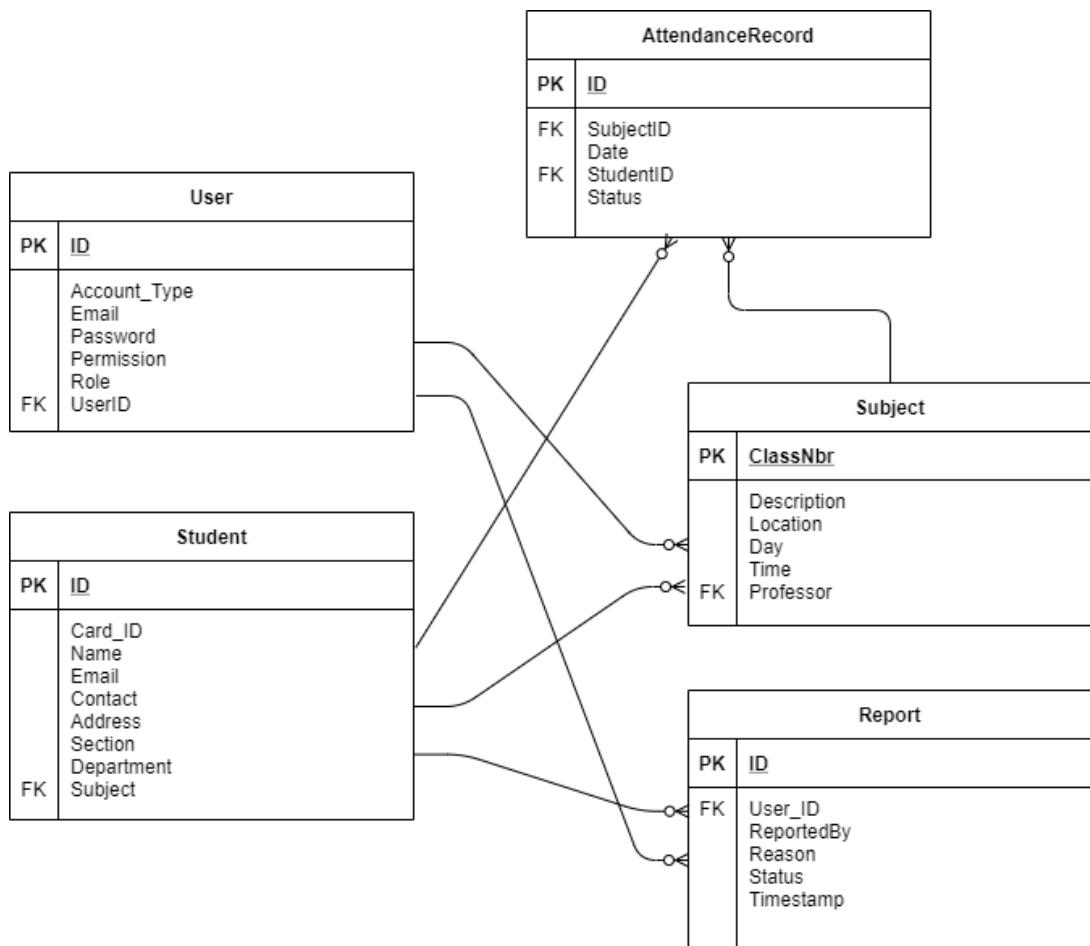
This part discusses how the system is designed in accordance with the standards.



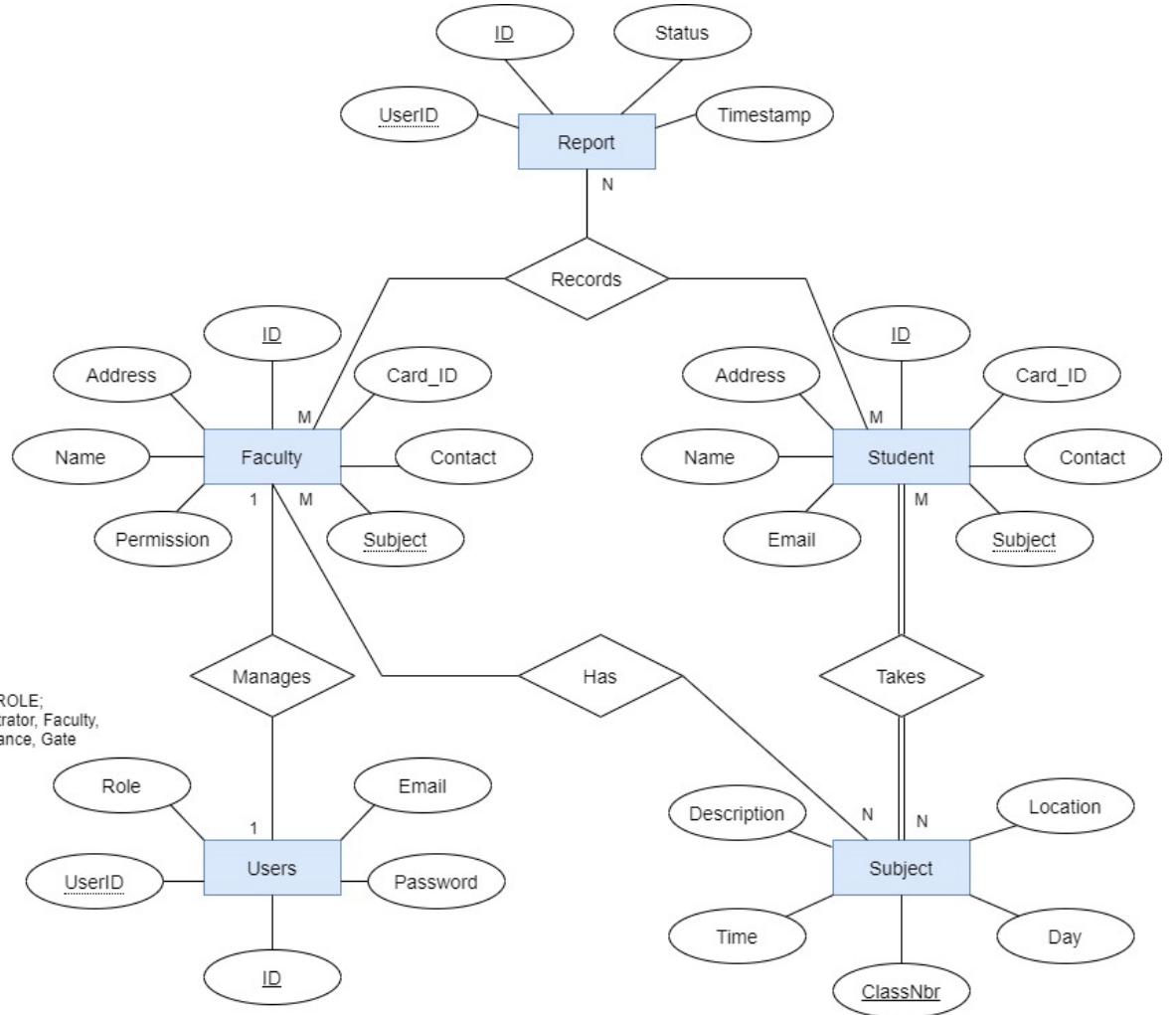
**Figure 9.** SDLC Model of student Attendance monitoring system for STI College Santa Rosa



**Figure 10.** Context Free Diagram of student Attendance monitoring system for STI College Santa Rosa



**Figure 11.** ERD of student Attendance monitoring system for STI College Santa Rosa



**Figure 12.** Chen's Notation of student Attendance monitoring system for STI College Santa Rosa

- 'Faculty' can only have one 'User' account and each user account can be managed by one faculty only.
- One 'faculty' may take more than one 'subject' and a 'subject' may only have one 'faculty'.
- One 'student' needs to take one or more than one 'subject' and one 'subject' needs to have one or more 'students'.
- 'Reports' can record one or more student or faculty and 'Student' and 'Faculty' may have one or more records to 'Reports'.

## **D. Development and Testing**

The system is developed in a span of 5 months with different phases as illustrated in “Figure 9: SDLC Model of student Attendance monitoring system for STI College Santa Rosa”.

The developers used a modified waterfall method in the SDLC that allows return to the previous phase for verification or validation. In this way the error in each phase is minimized. See “Figure 9: SDLC Model of student Attendance monitoring system for STI College Santa Rosa” for reference.

The system is tested by the developers first to verify if all requirements are met. Once the testing is done, and all requirements are met, the system is then implemented for the testing on the client side. The developers will be giving surveyee an account, with the type based on their position in STI College Santa Rosa simulate the different features of each role in the system.

Total number of respondents in STI College Santa Rosa is 8. Total of 5 Faculty and 3 Administrator that tested the system.

## **E. Description of Prototype**

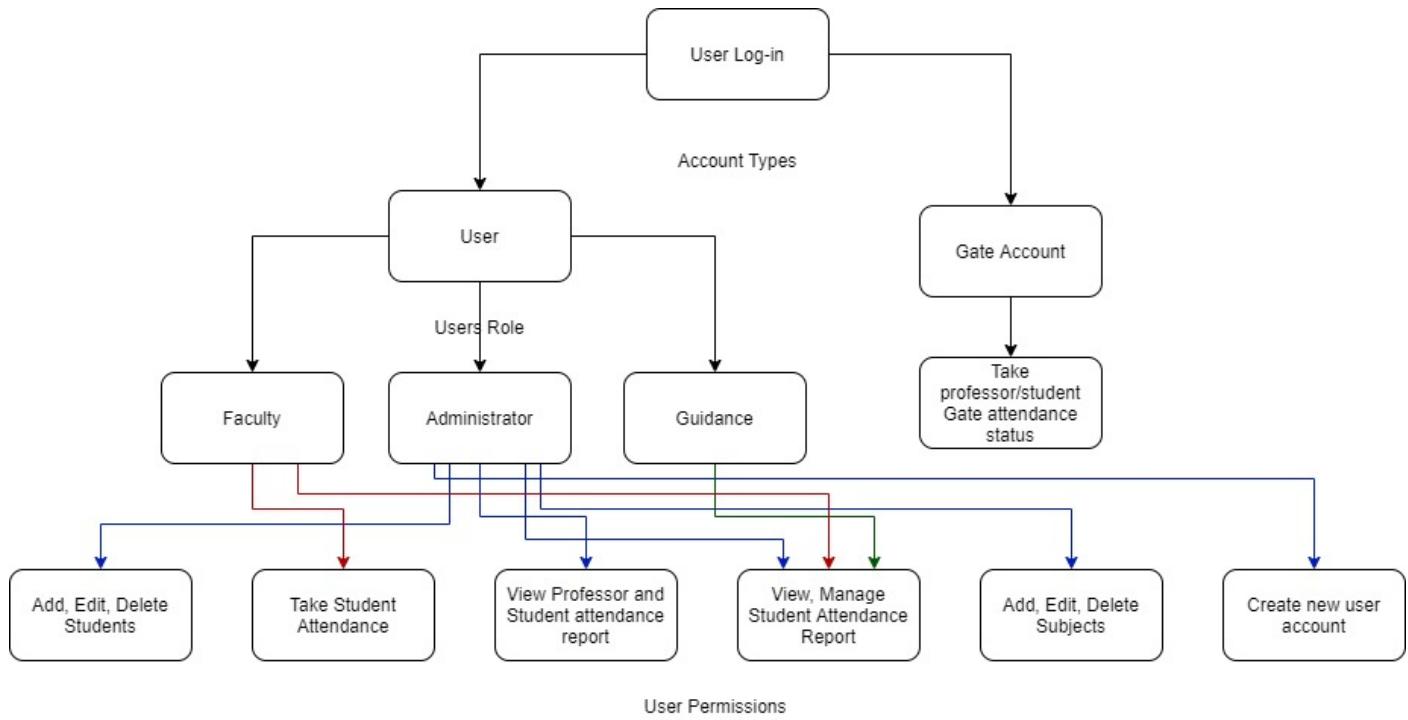
This part discusses the system requirements from the gathered data from STI College Santa Rosa. This part also tackles the preliminary design of the system in accordance with the standards.

System Requirements	
Client Requirement	Functionality Required
Allow professor taking attendance to provide reason to the student's attendance status.	<b>'Remarks' button in the attendance of each student.</b> When taking an attendance, the professor may optionally provide a reason to the student's attendance status.

	For example, the student was marked absent, the professor may opt to put a remark to that student to provide reason why that student is absent that date.
A dashboard where dean can see if a professor is present in class or in campus.	<p><b>Record professors' attendance activity.</b></p> <p>The system will be able to provide a professors attendance status by recording their activity.</p>
Make system online as implementing the system to the physical local server in campus might be a flaw in the campus security.	<p><b>Create a website and implement it through a web hosting service.</b></p> <p>A website that is web hosted is independent to any physical storage in STI College Santa Rosa, thus, addressing their concern in security.</p>

**Table 4.** System Requirements for STI College Santa Rosa attendance monitoring system.

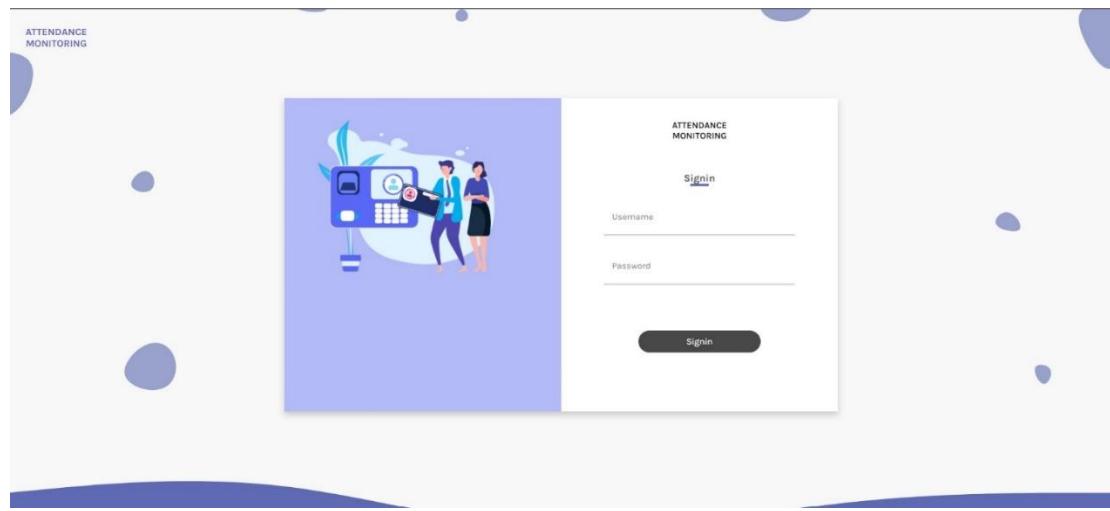
The next figure shows the flow of the system.



**Figure 13.** Process Flow Diagram of student attendance monitoring system for STI College Santa Rosa.

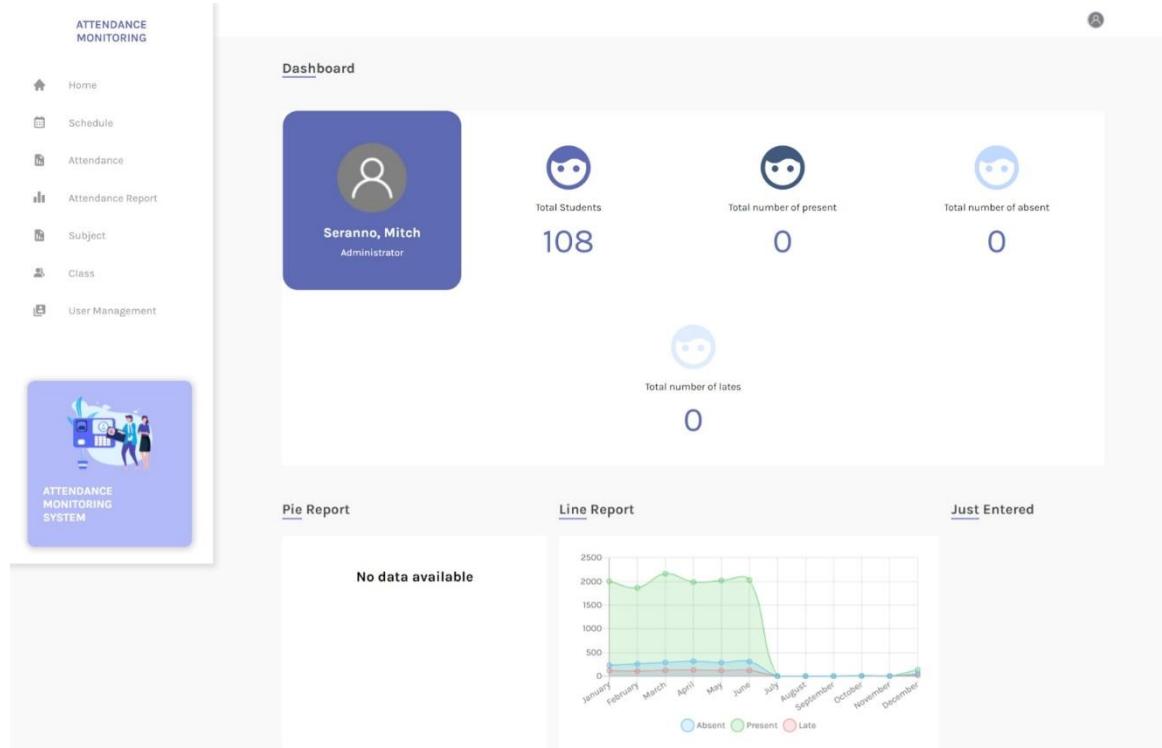
The above model is optimized for the use of the client. Security is also taken into consideration in the above figure by making different account type with different permissions.

The following figures will show the systems preliminary design and its descriptions.



**Figure 14.** The Login Page

The Login page is the front page of the system when the users/clients are accessing the system. Users/Clients will have an account to login into the system and only those who have an account are able to enter the system.



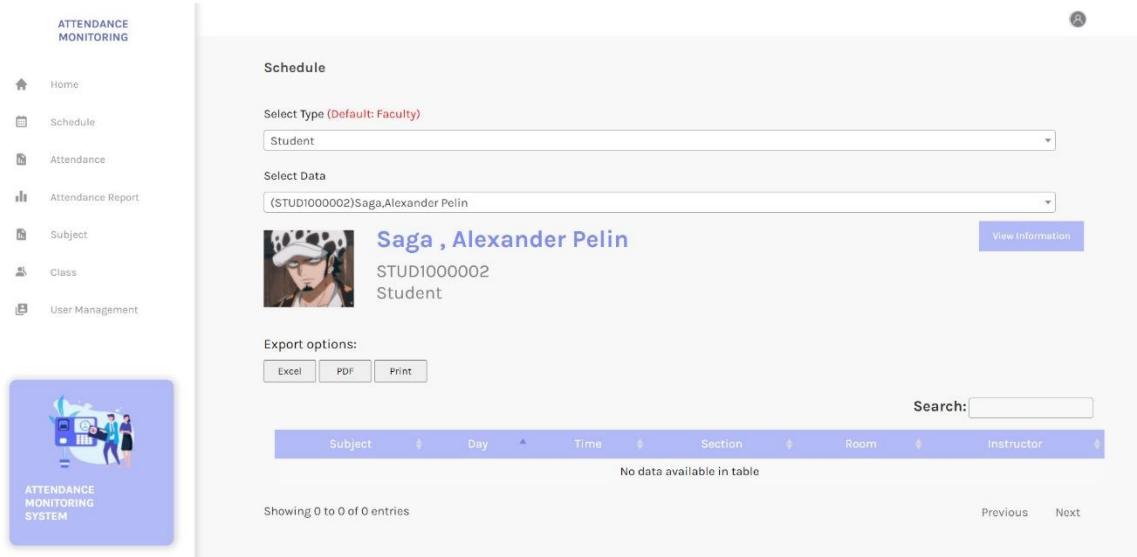
**Figure 15.** Home/Dashboard

The Dashboard is the second page after a user/client logged in into the system. The dashboard displays the overall number of students a professor is handling in all his/her subject, how many students are absent, present, and late. Below it is the pie and line report and on the right side are the list of the users who just entered.



**Figure 16.** Pie and line report

The Pie reports shows the percent of the data above, i.e., students who are absent, present, and late. The Line report shows the overall number of the data above from day 1.



**Figure 17.** Schedule Tab

The schedule tab. The schedule tab allows a user to view the schedule for the faculty and for the student. The tab shows the selection to choose whether to view a faculty or

a student. The tab also shows the user picture, their name, their id, and whether they are a faculty or student.

The screenshot shows a student profile for "Saga , Alexander Pelin" (STUD1000002, Student). It includes a user picture, name, ID, and a "View Information" button. Below this is an "Export options" section with "Excel", "PDF", and "Print" buttons. A search bar is present. A table header row is shown with columns: Subject, Day, Time, Section, Room, Instructor. A message "No data available in table" is displayed. At the bottom, it says "Showing 0 to 0 of 0 entries" and has "Previous" and "Next" buttons.

**Figure 18.** List of subjects

Below is the list of the subject a professor is handling or subject a student is enrolled in. The table shows the title of the subject, the day, time, location, and the professor who is handling the subject.

The screenshot shows the Attendance Monitoring System interface. On the left is a sidebar with "ATTENDANCE MONITORING" and links: Home, Schedule, Attendance, Attendance Report, Subject, Class, User Management. A central dashboard features two charts: a "Line Chart" titled "Overall Attendance" showing student counts from January to December, and a "Pie Graph Report" showing attendance status percentages (Present, Absent, Late, Leave Early). Below these is a table titled "Attendance Report" with columns: ID, Name, Days Present, Days Absent, Days Late. It lists three students: Larry, Mitchell Reyes (ID STUD100001), Saga, Alexander Pelin (ID STUD100002), and Serrano, Mitch Almarinez (ID STUD100003). Export options (Excel, PDF, Print) and a search bar are at the top of the table.

**Figure 19.** Attendance Report Tab

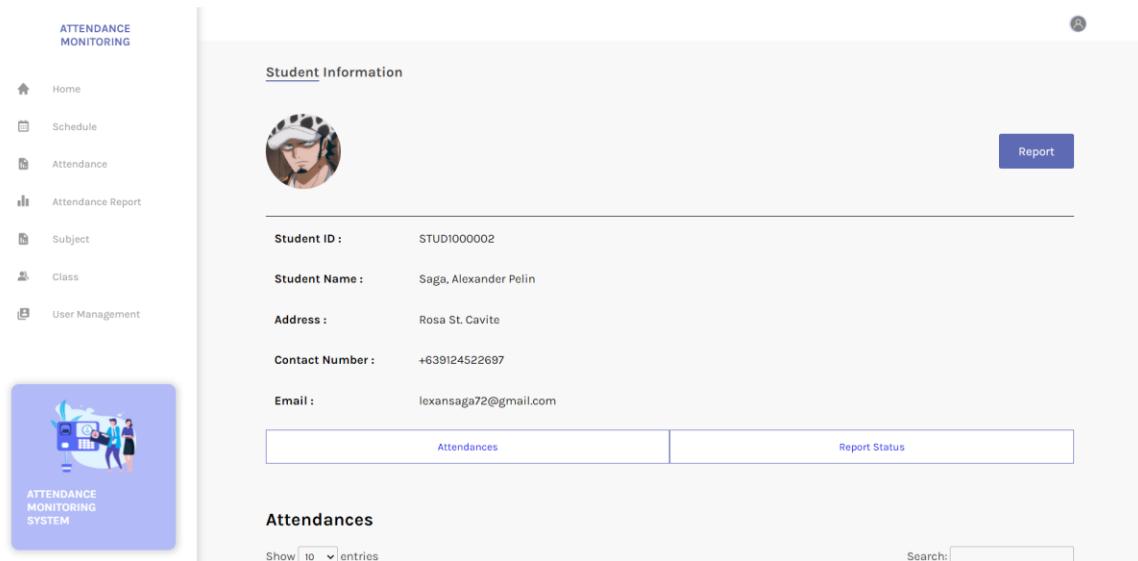
The attendance report tab is where the professor will submit their attendance. The attendance report shows the total number of students who are present, absent, and late

per month or the data in a selected date in the line chart. The pie graph report shows the percentage value per month or data in a selected date.

Attendance Report						
	ID	Name	Days Present	Days Absent	Days Late	
	STUD1000001	Larry, Mitchell Reyes	44	14	5	
	STUD1000002	Saga, Alexander Pelin	113	25	17	
	STUD1000003	Serrano, Mitch Almarinez	85	10	7	
	STUD1000004	Duncan, Joseph Porter	67	5	5	
	STUD1000005	Quinn, Jason Ledwaba	136	12	9	
	STUD1000006	Walsh, Diane Alabas	103	17	6	
	STUD1000007	Wilson, Leonard Wallace	46	5	1	
	STUD1000008	Lee, Eric Choi	47	13	9	

**Figure 20.** Attendance Report

The attendance report shows the list of students that a professor is handling. The list shows the student id, their name, days present, days absent, and days late.



The screenshot displays the 'Student Information' page of the Attendance Monitoring System. On the left, a sidebar menu lists 'Home', 'Schedule', 'Attendance', 'Attendance Report', 'Subject', 'Class', and 'User Management'. Below this is a logo for 'ATTENDANCE MONITORING SYSTEM' featuring two stylized figures. The main content area shows a student profile for 'Saga, Alexander Pelin' with a placeholder image. The student's details are listed: Student ID: STUD1000002, Student Name: Saga, Alexander Pelin, Address: Rosa St. Cavite, Contact Number: +639124522697, and Email: lexansaga72@gmail.com. A 'Report' button is located in the top right corner of this section. At the bottom, there are two tabs: 'Attendances' and 'Report Status'. The 'Attendances' tab is currently active. A search bar is at the bottom right. The overall interface is clean with a light blue and white color scheme.

**Figure 21.** Student Information

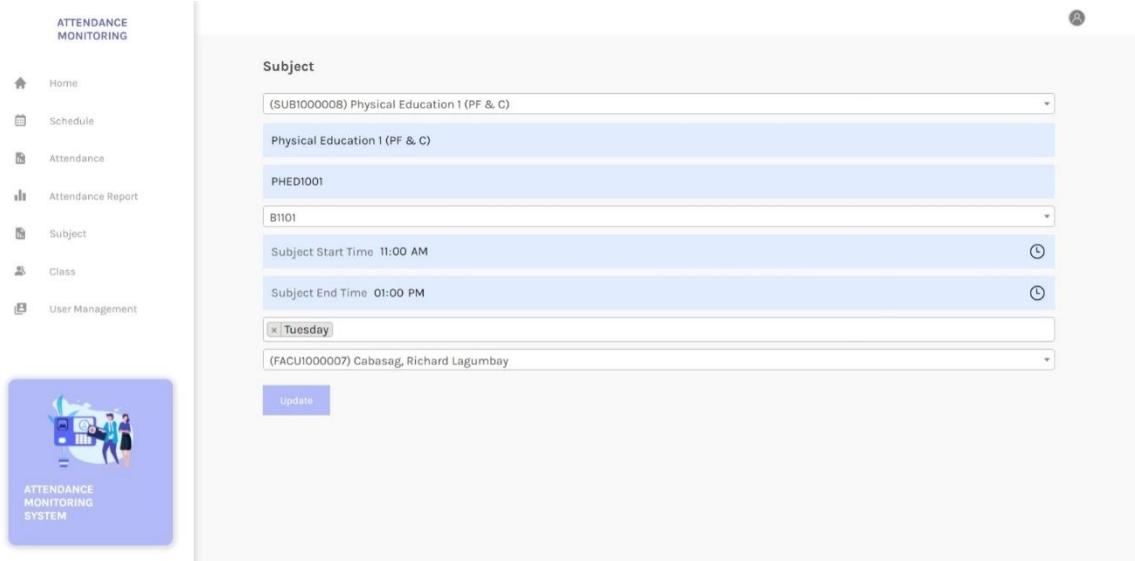
The student information allows the user/client to view more information about the student. The tab shows the student number, section, address, contact number and status. Below the student information is their subject, the date, and the time for the subject, the student status on that date and time, and if the student has any remarks.

The screenshot displays the 'Attendance' tab of the 'Business Oper Prac (600 hours)' module. On the left, a sidebar lists navigation options: Home, Schedule, Attendance, Attendance Report, Subject, Class, User Management, and a logo for 'ATTENDANCE MONITORING SYSTEM'. The main area shows a grid of student names and their attendance status across several dates. A legend at the top indicates: Present (green circle), Absent (red circle), Arrive Late (orange arrow pointing left), and Leave Early (orange arrow pointing right). The grid includes columns for dates from 06/28/2021 to 05/24/2021. Student names listed are Bailey, Angela Abot; Bell, Colin Jameson; Edmunds, Sean Serrano; Mathis, Molly Quinn; May, Katherine Gallven; Miller, Nicola Tesla; and Rutherford, Caroline July. Each student's row shows their status for each date, with some entries like 'Late' or 'Absent' with a reason.

Name	06/28/2021	06/21/2021	06/14/2021	06/07/2021	05/31/2021	05/24/2021
Bailey, Angela Abot	Present	Present	Present	>> Late	Present	Pr
Bell, Colin Jameson	Absent	<< Late	Present	Present	Present	I
Edmunds, Sean Serrano	Present	<< Late	Present	Present	Present	Pr
Mathis, Molly Quinn	Present	Present	Absent	Present	Present	I
May, Katherine Gallven	Present	Present	Present	Present	Present	Pr
Miller, Nicola Tesla	Absent	Absent	Present	Absent	<< Late	Pr
Rutherford, Caroline July	<< Late	Absent	Present	Present	Present	Pr

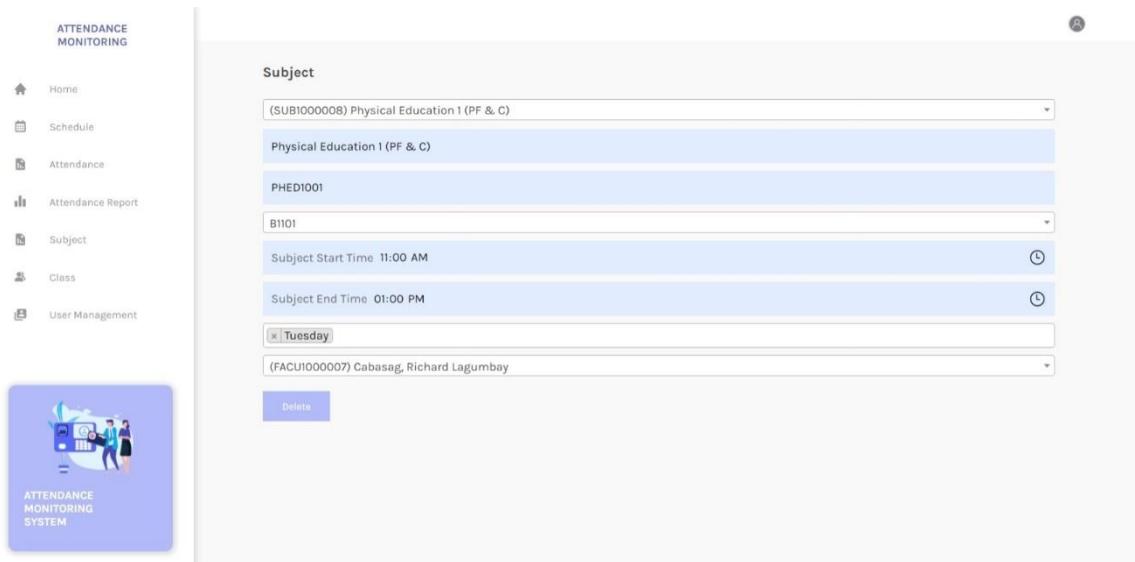
**Figure 22.** Attendance

The attendance tab is for taking attendance during class. A professor can mark a student if they are present, absent, arrive late, or leave early. If the student arrived late or left early or absent, does the student have a valid reason on why the student arrived late or left early or absent in class. If the reason is valid the professor will put a remark on them and the reason on why the student is late or absent in class. The attendance that the professor has taken can be exported when the taking of attendance is done. After the professor is done taking attendance in class, they can now submit it.



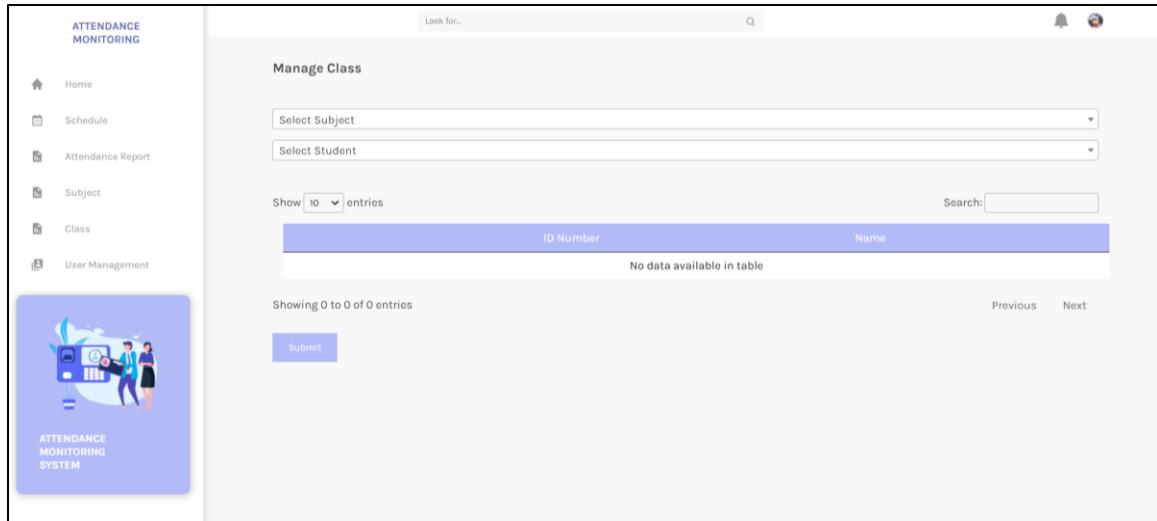
**Figure 23.** Edit Subject tab

The edit subject is used if/when the user/client wanted to change something in a selected subject that they wanted to change. Once they filled in the text boxes, they can now update the selected subject.



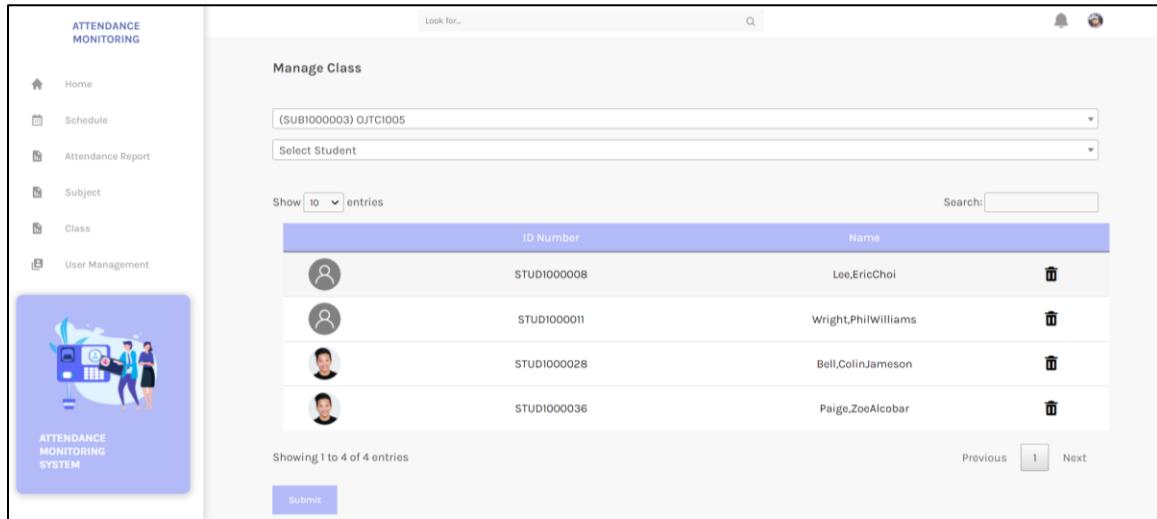
**Figure 24.** Delete Subject tab

The delete subject is if/when the user/client wanted to delete a subject. Once a subject is selected, they can now proceed to delete the selected subject.



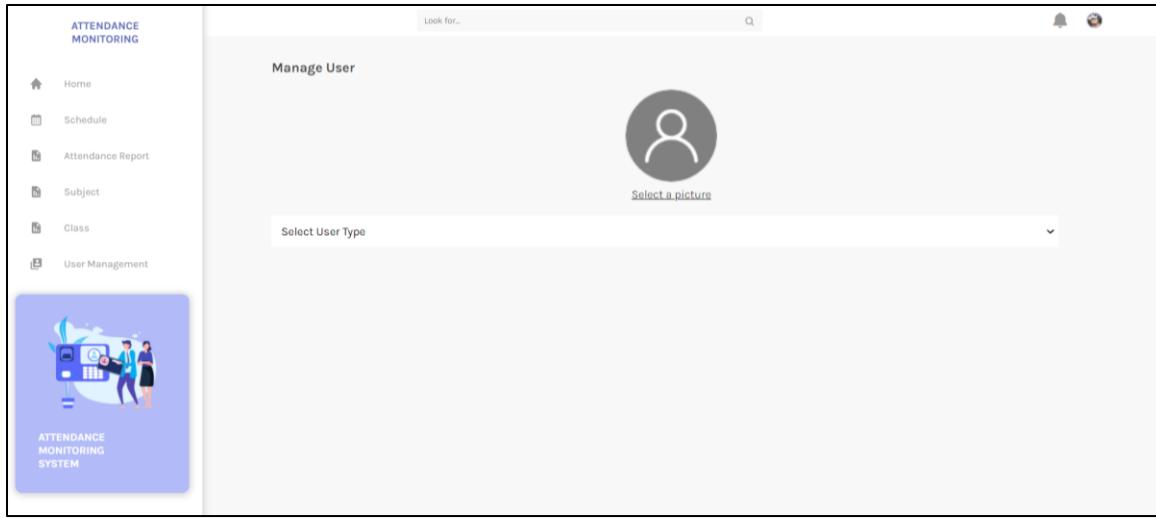
**Figure 25.** Manage Class tab

Manage class is for adding students per subject.



**Figure 26.** Adding student into the selected subject

Once a subject is selected and students are added into the subject, the student picture, id number, and their name will appear below.



**Figure 27.** Add user tab

The add user tab is for adding a user. There are three user types, student, faculty, and gate.

A screenshot of the "Manage User" page from the "ATTENDANCE MONITORING" system. The sidebar and blue button are identical to Figure 27. The main area shows the "Manage User" title and the "Select a picture" placeholder. The "Select User Type" dropdown is now set to "Student". Below it, a form is filled out with the following data:

- Card ID: STUD1000106
- Last Name: (empty)
- First Name: (empty)
- Middle Name: (empty)
- Contact Number: (empty)
- Email: (empty)
- Address: (empty)

**Figure 28.** Add Student

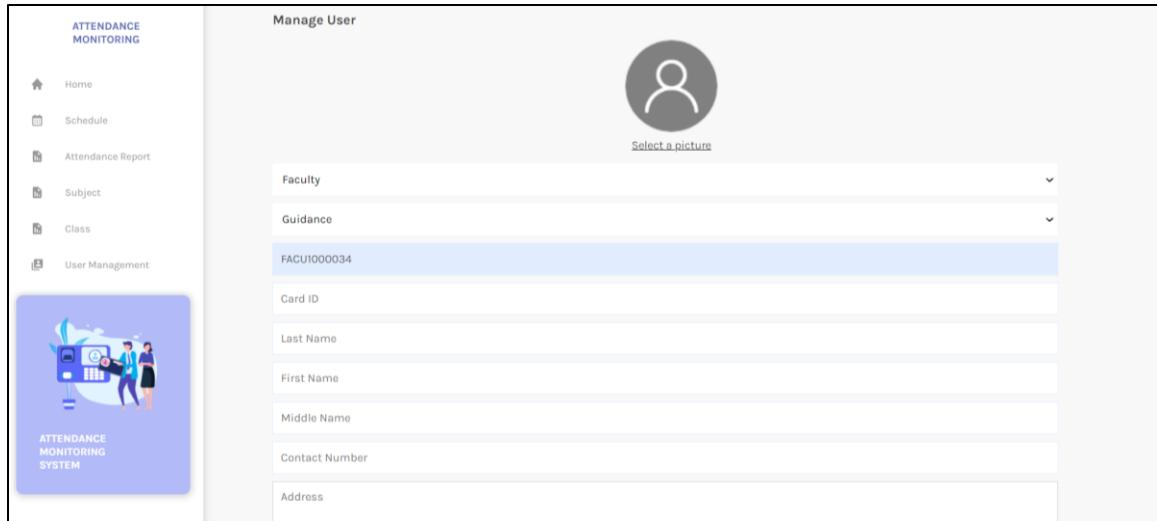
Student user type. The student user type is for adding a new student that has enrolled into the campus. Once the necessary text box is filled in, the user/client can now add the student into the system.

**Figure 29.** Add Faculty

Faculty user type. The faculty is for adding a faculty member. There are three roles in the faculty user type, the default one is the faculty. The faculty role is for professors.

**Figure 30.** Add Faculty. Role: Administrator

The second role is the administrator role, the administrator role is for administrator, administrator can access adding, editing, and deleting of subject and users when necessary.



**Figure 31.** Add Faculty. Role: Guidance

The third role is the guidance. The guidance handles the reports of students reported by either faculty or administrator.

Reported Students					
* Showing Data from 01/12/2021 - << Present Date>> Show 10 entries      Search: <input type="text"/>					
	Name	Reason	Reported By	Actions	
	Alexander Saga	This contains the reason why the student	Jeann B. Log	<a href="#">Take Action</a>	<a href="#">Delete Report</a>
	Alexander Saga	This contains the reason why the student	Jeann B. Log	<a href="#">Take Action</a>	<a href="#">Delete Report</a>
	Alexander Saga	This contains the reason why the student	Jeann B. Log	<a href="#">Take Action</a>	<a href="#">Delete Report</a>
	Alexander Saga	This contains the reason why the student	Jeann B. Log	<a href="#">Take Action</a>	<a href="#">Delete Report</a>
	Alexander Saga	This contains the reason why the student	Jeann B. Log	<a href="#">Take Action</a>	<a href="#">Delete Report</a>
	Alexander Saga	This contains the reason why the student	Jeann B. Log	<a href="#">Take Action</a>	<a href="#">Delete Report</a>
	Alexander Saga	This contains the reason why the student	Jeann B. Log	<a href="#">Take Action</a>	<a href="#">Delete Report</a>
	Alexander Saga	This contains the reason why the student	Jeann B. Log	<a href="#">Take Action</a>	<a href="#">Delete Report</a>
Showing 1 to 7 of 7 entries      Previous <input type="button" value="1"/> Next					

**Figure 32.** Reported Students tab

The reported students tab can be accessed by the guidance. The reported students contain the reported student, their name, the reason why the student is reported, who reported the student, and the actions. The actions will be done by the guidance to whether to take action on the report or delete the report. The guidance can also archive the report.

Attendance Monitoring System					
Attendance Monitoring		Archived			
		Showing Data from 01/12/2021 - << Present Date>>			
<a href="#">Home</a> <a href="#">Schedule</a> <a href="#">Attendance Report</a> <a href="#">Subject</a> <a href="#">Class</a> <a href="#">User Management</a>		Show <select>10</select> entries	Search: <input type="text"/>		
Name	Action Taken	Summary	Date		
	Alexander Saga	This contains the reason why the student	Jeann B. Log	23 March ,2019 08:03PM	
	Alexander Saga	This contains the reason why the student	Jeann B. Log	23 March ,2019 08:03PM	
	Alexander Saga	This contains the reason why the student	Jeann B. Log	23 March ,2019 08:03PM	
	Alexander Saga	This contains the reason why the student	Jeann B. Log	23 March ,2019 08:03PM	
	Alexander Saga	This contains the reason why the student	Jeann B. Log	23 March ,2019 08:03PM	
	Alexander Saga	This contains the reason why the student	Jeann B. Log	23 March ,2019 08:03PM	
	Alexander Saga	This contains the reason why the student	Jeann B. Log	23 March ,2019 08:03PM	
	Alexander Saga	This contains the reason why the student	Jeann B. Log	23 March ,2019 08:03PM	
Showing 1 to 7 of 7 entries	<a href="#">Previous</a> <a href="#">1</a> <a href="#">Next</a>				

**Figure 33.** Archived

The archived contains the archived report made by the guidance. The archived contains the picture, the name, the action taken by the guidance, the person reported the student, and the date of the report.

The image shows a web-based application interface for an "ATTENDANCE MONITORING SYSTEM". On the left sidebar, there are several menu items: Home, Schedule, Attendance Report, Subject, Class, and User Management. Below the sidebar is a large purple box containing a stylized icon of two people interacting with a globe and a smartphone, with the text "ATTENDANCE MONITORING SYSTEM" underneath. The main content area has a header "Just Entered" and a note "Showing Data from 01/12/2021 - << Present Date>>". A search bar is at the top right. Below this is a table with columns: ID, Name, Timestamp, and Status. The table header includes dropdown menus for sorting. A message "No data available in table" is displayed. At the bottom, it says "Showing 0 to 0 of 0 entries" and features "Previous" and "Next" navigation links.

**Figure 34.** Just Entered tab

The just entered tab shows who entered the campus via the tap in and tap out system.

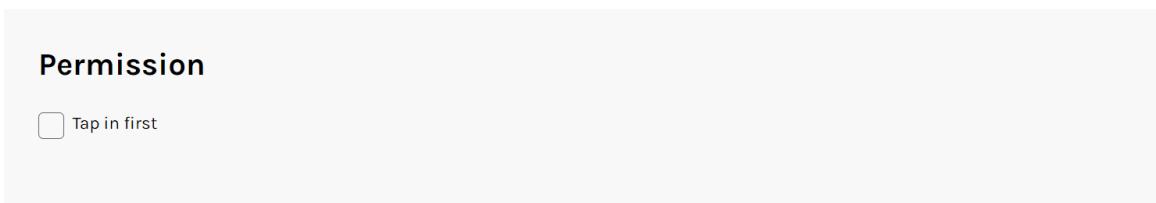


**Figure 35.** Gate Attendance

When entering the building of a campus, users must do a tap in before entering and tap out when exiting the building. The gate attendance will be on the entrance of a building in the campus, it also shows the time and date when taping in and out.

**Figure 36.** Profile Tab

The profile tab gives the detail of the user and permission to give to the user if needed. The first thing to see in the profile is the picture of the user, their role, full name, address, and contact number.



**Figure 37.** Permission

Below the user information is the permission. The permission gives a user permission listed below. The given permission listed are as follows:

- Tap in first – requires the user to tap-in to the gate attendance first before they can take classroom attendance.

The screenshot shows the 'IMPORT DATA' tab of the Attendance Monitoring System. On the left, a sidebar lists navigation options: Home, Schedule, Attendance, Attendance Report, Subject, Class, User Management, and a logo for ATTENDANCE MONITORING SYSTEM. The main area is titled 'IMPORT DATA' and contains instructions: 'This page allows you to import file from EXCEL to the system. This feature allows uploading of data by batch. To upload data here are some of the parameters you need to consider to successfully enter data to the system.' It includes a large dashed box for file upload with the text 'Click to choose files or drag and drop files here'. To the right, there are three columns of required columns:

- Courses Offered required columns**
  - Class Number
  - Course Description/Title
- List of Rooms required columns**
  - Building and Room Number
- List of Section required columns**
  - Section Name

A blue 'Upload' button is located at the bottom right of the data entry area.

**Figure 38.** Import tab

The import tab allows the user to upload data from excel file to the system. This allows multiple data to be inserted at once.

## F. Implementation Plan

This part discusses how the system will be implemented and what are the requirements for the system to run and be deployed.

The system is made using HTML, CSS, and Javascript which is a component for a web application. The system will not need any installing in the client's computers or such, but instead, a device will just be needing a web browser to access the system.

The developers will be launching the system through a web hosting. The developers will specifically use Google's Firebase Web Hosting where the system database is also managed. The developers chose Google for the launch as Google is a known tech giant and they use the latest technology there is. In this way, the client will be more confident that the data stored in the system were secured.

Once the system is uploaded to web hosting service, a URL is assigned to the website which the user will use to search in the address bar in the browser to access the system. The system being a web system uploaded to the cloud, is accessible anywhere as long as the user have an internet connection and a device to use.

In the case of the Gate Attendance UI in the system, it will have a unique permission assigned to it and it is used to be logged into but not limited to campus entrance computers where the students, faculties, and staff with RFID ID's and Accounts or data in the system may tap their IDs to record their in/out status in the campus. To be able to make this functional and operational, there is an external hardware required to be plugged in to the computers where the Gate attendance account is logged in. It is as follows.

Hardware Requirements	
Name	Hardware Description
13.56Mhz USB RFID Card Reader 	This is a plug and play USB RFID card reader used to read the 13.56MHz RFID cards.

**Table 5.** Hardware Requirement for Gate attendance.

Other than the hardware listed above, all other hardware and devices were already available in STI College Santa Rosa, so they are not mentioned and discussed to remove redundancy.

The following tables discusses the testing of different modules in the system which is discussed in the Chapter 2 of this documentation. All tests below are the tests done by the developers as a part of the development of the system. The result of the tests below will determine if the system is ready for testing by the client.

<b>RFID Reader/Writer Module</b>				
<b>Test Description</b>	<b>Test Data</b>	<b>Expected Result</b>	<b>Actual Result</b>	<b>Status</b>
Connect RFID Reader hardware to user computer and tap an RFID card ID while gate attendance account is logged in to the system.	13.56MHz RFID card contains Student ID with value 02000017275 that is assigned to a student named Mitch A. Serrano	When the user tapped in the RFID card to the reader, the system should be able to display the user's information in the screen	The user taps the ID in the reader and the system displayed the user information associated with the card ID.	<b>Passed</b>

**Table 6.** RFID Reader/Writer Module test.

<b>Log-in Module</b>				
<b>Test Description</b>	<b>Test Data</b>	<b>Expected Result</b>	<b>Actual Result</b>	<b>Status</b>
The user accesses the system and log-in using an email and password given by the dean.	Email: <a href="mailto:ser.mitch2k@gmail.com">ser.mitch2k@gmail.com</a> Pass: admin01234	The user can log in to the system as a faculty using the given log-in credentials.	The user log-in to the system using the given log-in credentials as a faculty	<b>Passed</b>

**Table 7.** Log-in Module test.

File Maintenance Module				
Test Description	Test Data	Expected Result	Actual Result	Status
In this test the user should be able to do the basic file maintenance actions such as Add, Edit, and Delete in the system	<p>The following data is a student data.</p> <p><b>Card ID:</b> 020303020</p> <p><b>First Name:</b> John</p> <p><b>Middle Name:</b> Lit</p> <p><b>Last Name:</b> Doe</p> <p><b>Contact Number:</b> 096349239923</p> <p><b>Email:</b> <a href="mailto:JohnDoe@sticollege.santarosa.com">JohnDoe@sticollege.santarosa.com</a></p> <p><b>Address:</b> 732 Beach Drive Ave., Makati City, Philippines.</p>	The user will be able to enter the following data in the system.	The data entered successfully.	Passed
-	Change Mobile number to 0934828121	The user will be able to edit the contact number of the John Doe	The contact number is updated.	Passed
	Delete User Data	The data is deleted in the system.	The data is deleted in the system.	Passed

**Table 8.** File Maintenance Module test.

Report Generation Module				
Test Description	Test Data	Expected Result	Actual Result	Status
This is to test the ability of the system to generate attendance reports.	<b>Name:</b> John Doe <b>Status:</b> Present	The status of the test data should be added to the overall number of present and the user should see the number of presents and absents in a dashboard as a pie or line report.	John Doe is marked as present in that specific date and is added to the total number of present in that specific date. The system generates the total number as a pie and line report.	Passed

**Table 9.** Report Generation Module test.

All tests above show positive results. The system will now then ready to be tested by STI College Santa Rosa. There would be multiple users on STI College Santa Rosa so the system will be tested by multiple individuals given with different account types to test the features of the system.

They will then be given survey questionnaire consisting of the following questions.

**Name (Last Name, First Name, Middle Initial)**

**Position**

Faculty

Administrator

Guidance

**Based on the number of student/s you handle currently; do you think that using the system developed by the developers can help you track their attendance easily?**

YES       NO

**Is your device able to run the system?**

YES       NO

**Do you consider the design of the system as user-friendly?**

YES       NO

**Are you able to export data from the system to pdf and excel file?**

YES       NO

**Do you think that the system developed by the developers improved the current attendance monitoring system of STI College Santa Rosa?**

YES       NO

**Are you satisfied with the performance of the system?**

YES       NO

**Did you encounter a problem while testing the system?**

YES       NO

**Are you satisfied with the features of the system?**

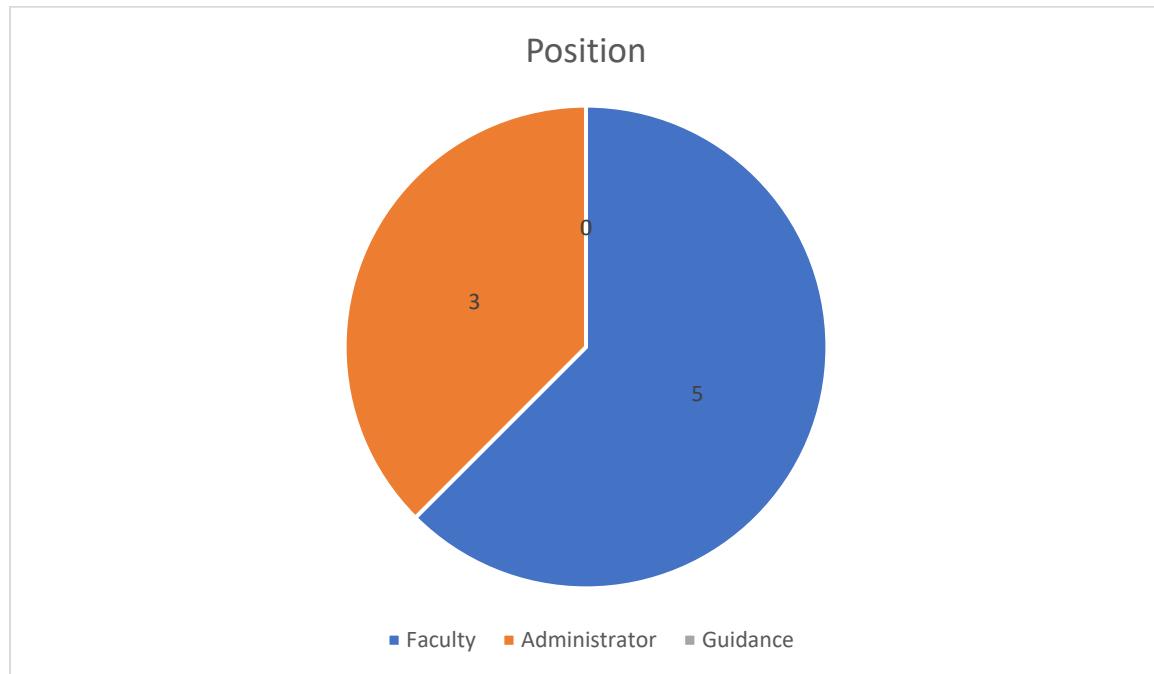
YES       NO

**If used regularly, do you think that the system can improve your overall attendance taking experience?**

YES       NO

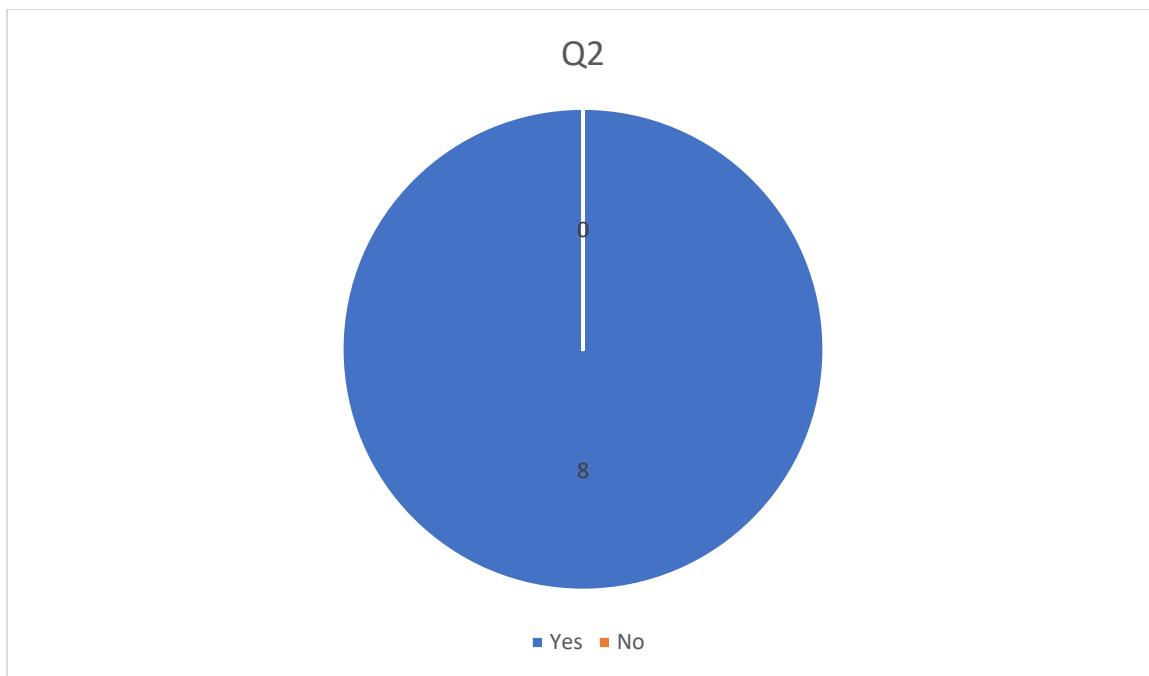
The result of this survey will determine the effectiveness of the system developed by the developers to address the problem in student attendance monitoring system of STI College Santa Rosa Tertiary Department.

#### G. Implementation Results



**Figure 39.** STI College Santa Rosa positions of surveyee.

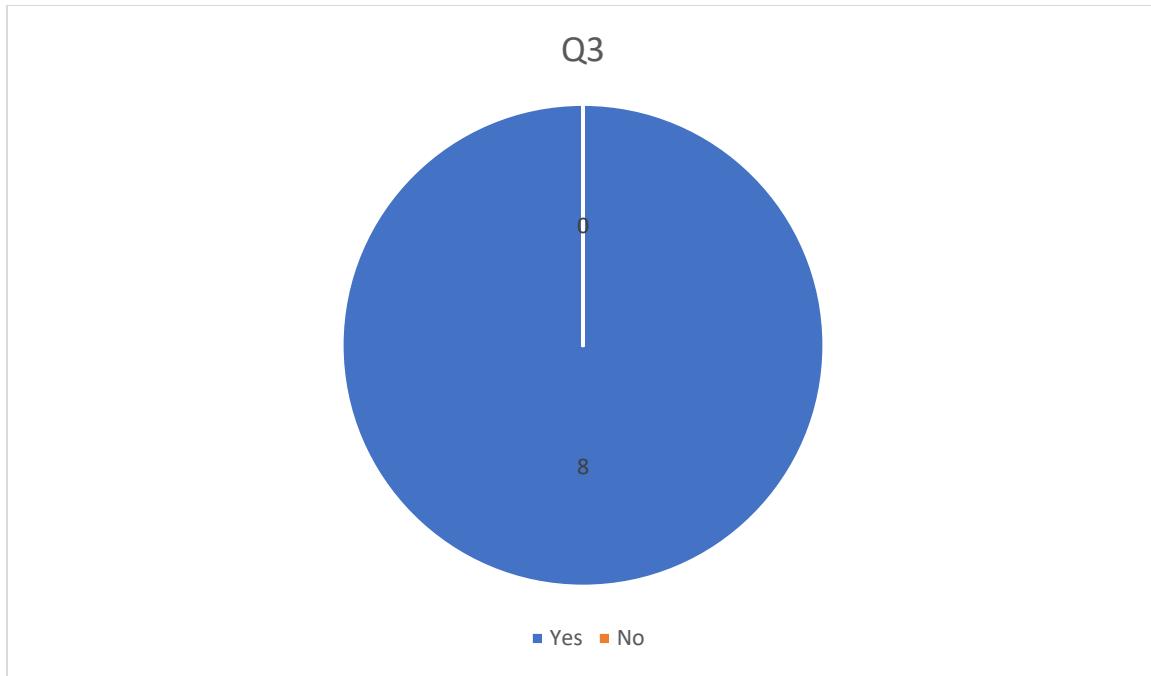
The above figure shows the position of the surveyed individual in STI College Santa Rosa, apparently, the developer's failed to demonstrate the system to a guidance personnel, as an alternative, the developers demonstrate the role of a guidance to both faculty and administrator that has been surveyed.



**Figure 40.** Q2 Result: Based on the number of student/s you handle currently; do you think that using the system developed by the developers can help you track their attendance easily?

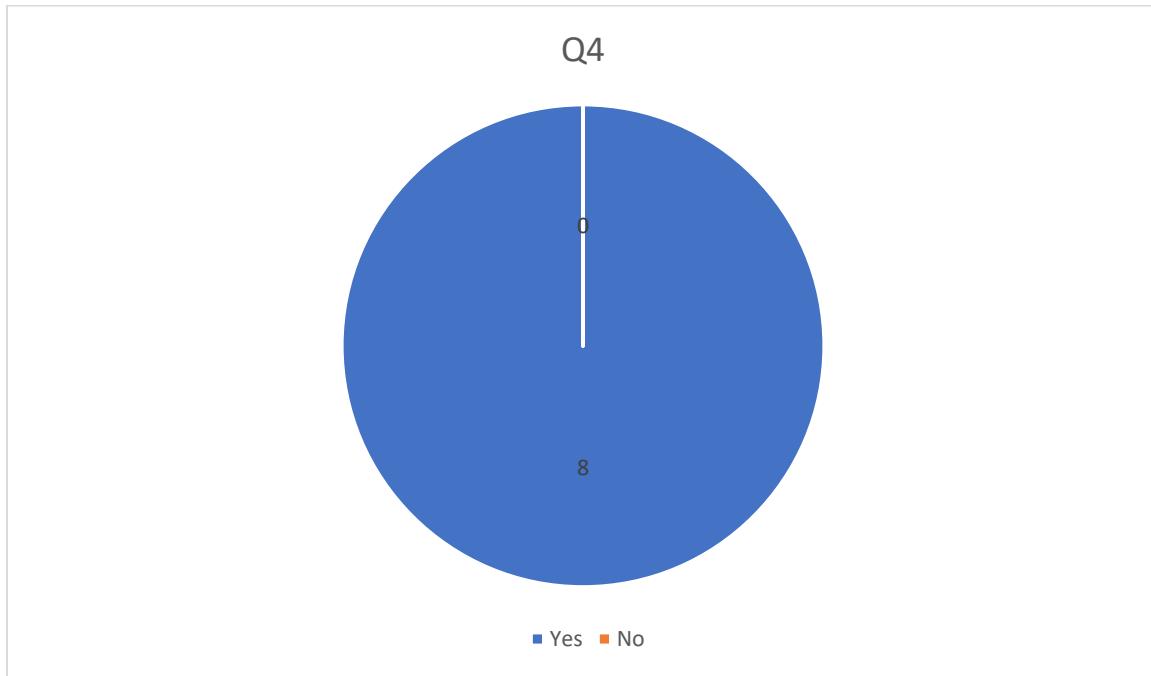
All personnel that have been surveyed agreed that based on the number of students they currently handle, the system developed by the developers can help them track the student's attendance easily.

In the actual application of the system, there will be approximately 1000+ students to be handled by the system and at least 30+ users. The system developed by the developer's is optimized to handle such big data thus the system can perform well even there is hundreds of data in the system.



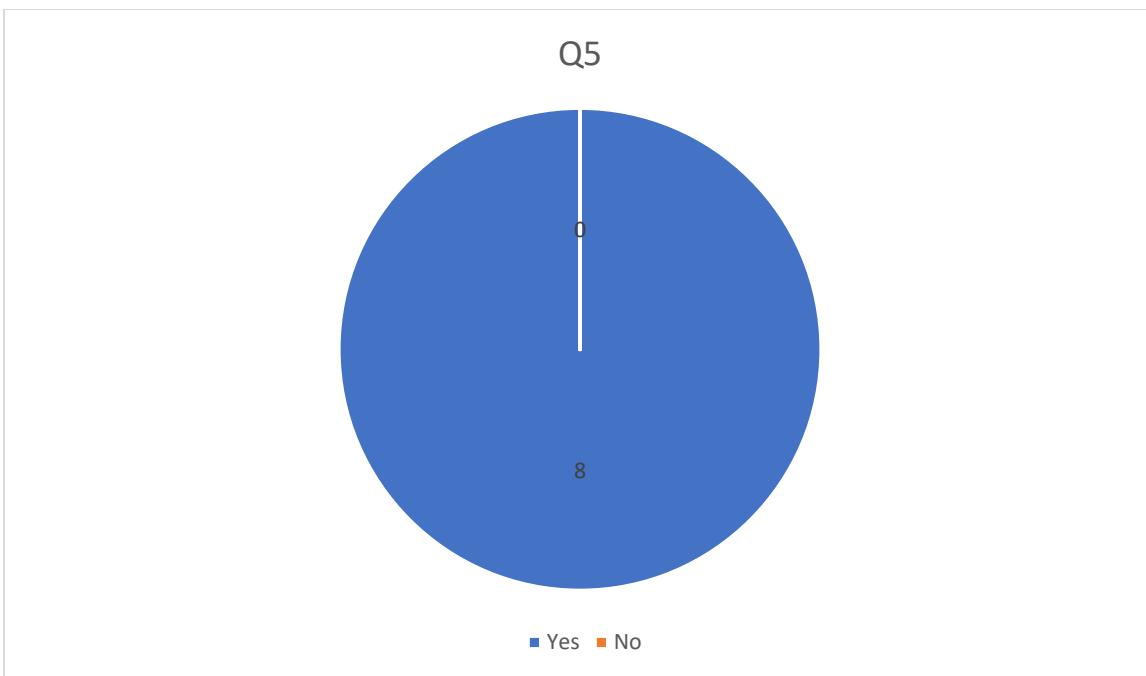
**Figure 41.** Q3 Result: Is your device able to run the system?

The devices used by the surveyed personnel are able to run the system.



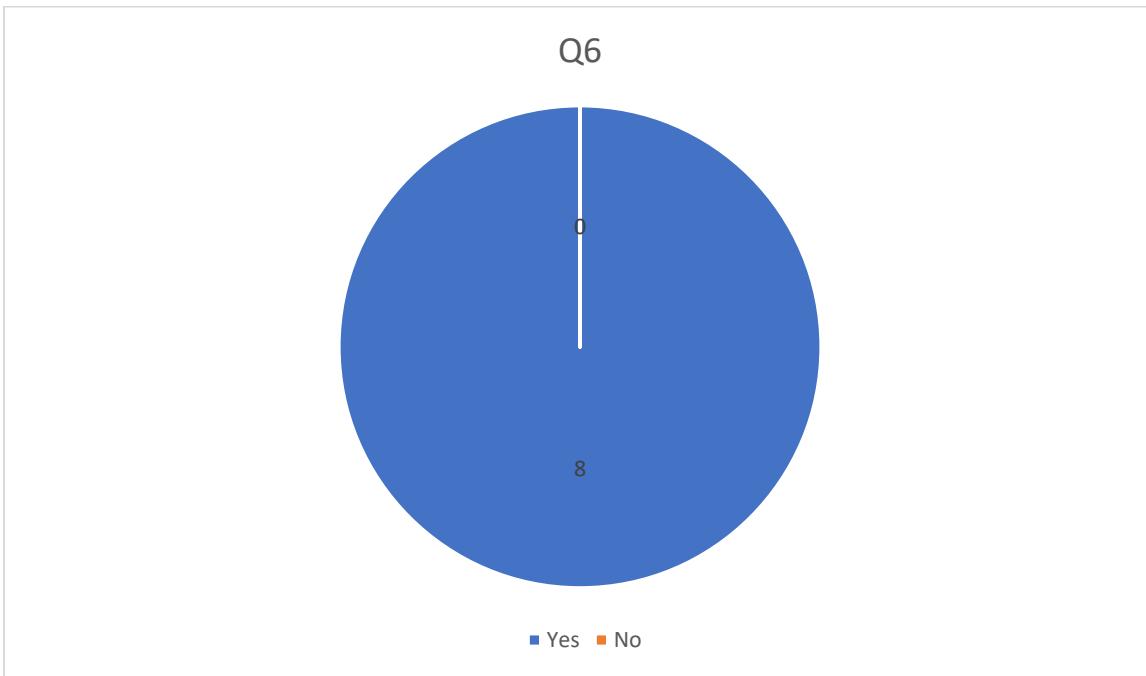
**Figure 42.** Q4 Result: Do you consider the design of the system as user-friendly?

All surveyed personnel agreed that the system is easy to use and does not confuse them.



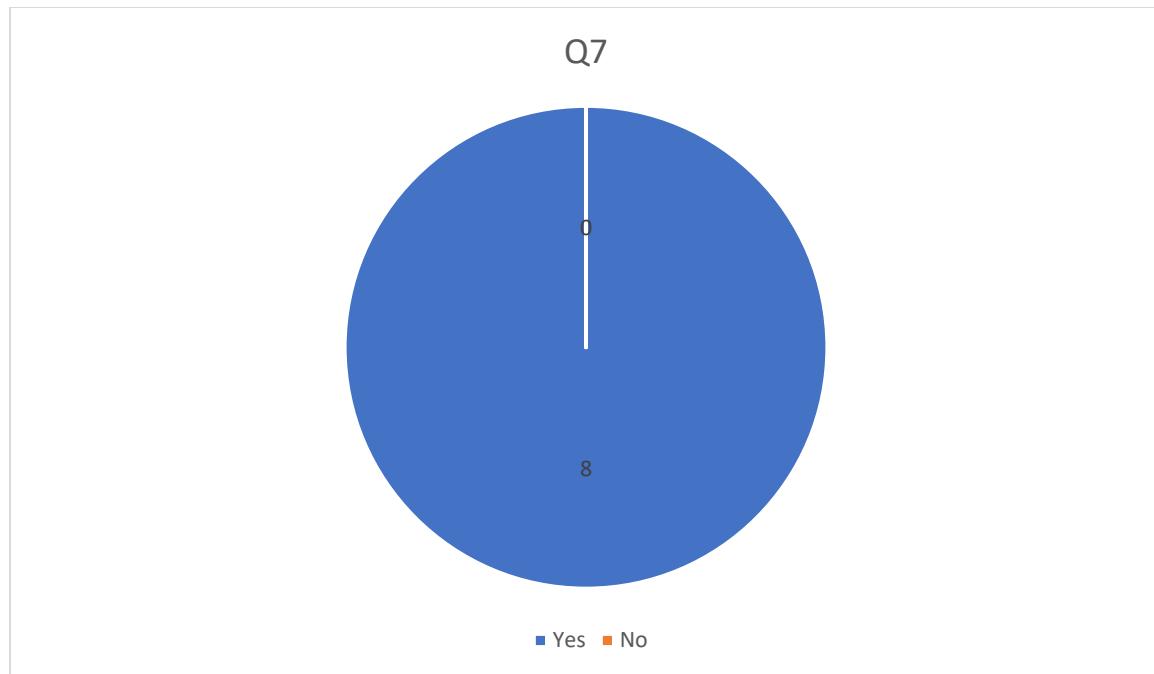
**Figure 43.** Q5 Result: Are you able to export data from the system to pdf and excel file?

All surveyed personnel can export pdf and excel file from the system.



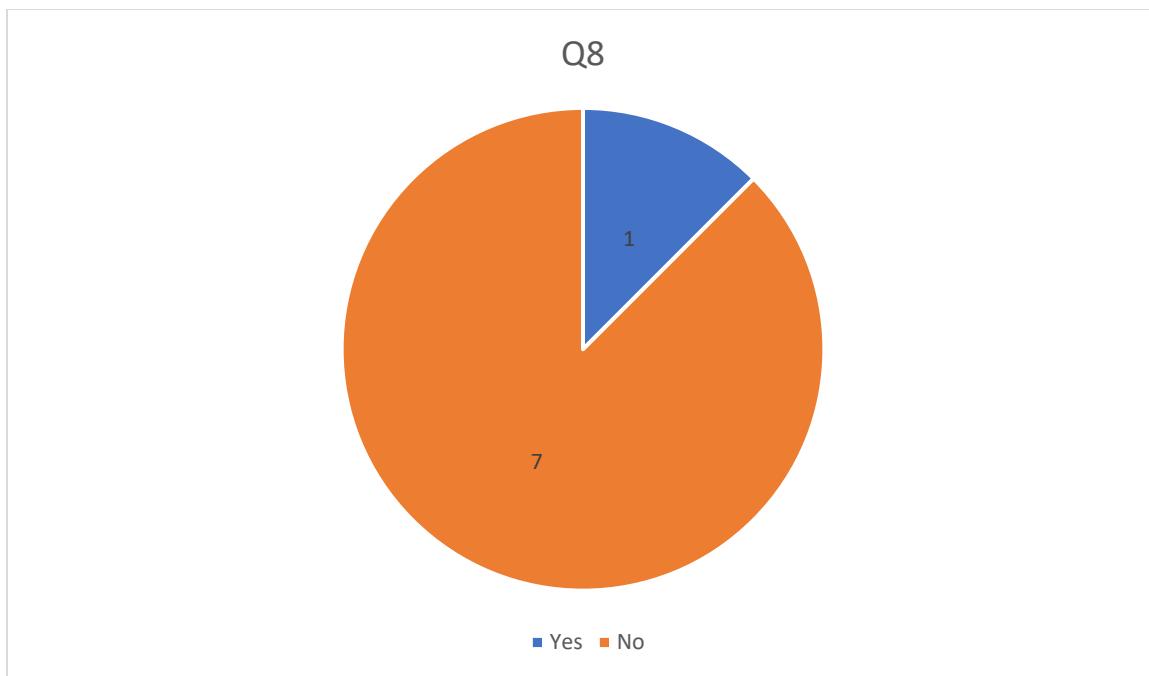
**Figure 44.** Q6 Result: Do you think that the system developed by the developer's improved the current attendance monitoring system of STI College Santa Rosa?

All surveyed personnel agreed that the system developed by the developers have improved their current attendance monitoring system.



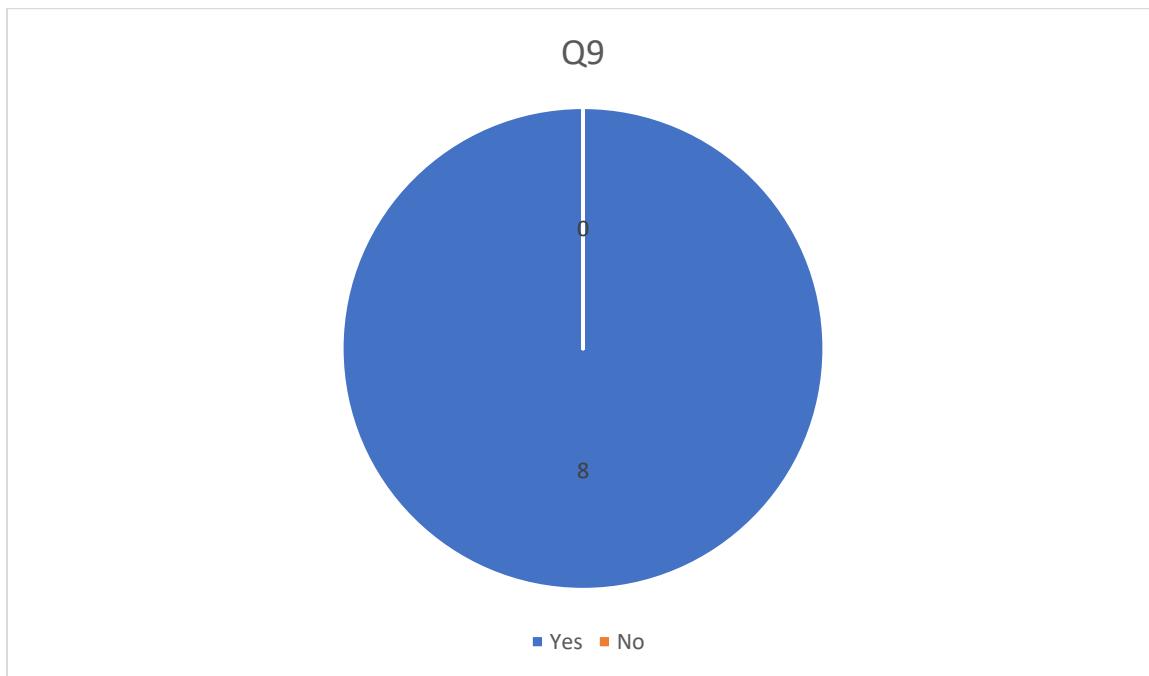
**Figure 45.** Q7 Result: Are you satisfied with the performance of the system?

All surveyed personnel show satisfaction with the performance of the system upon their testing.



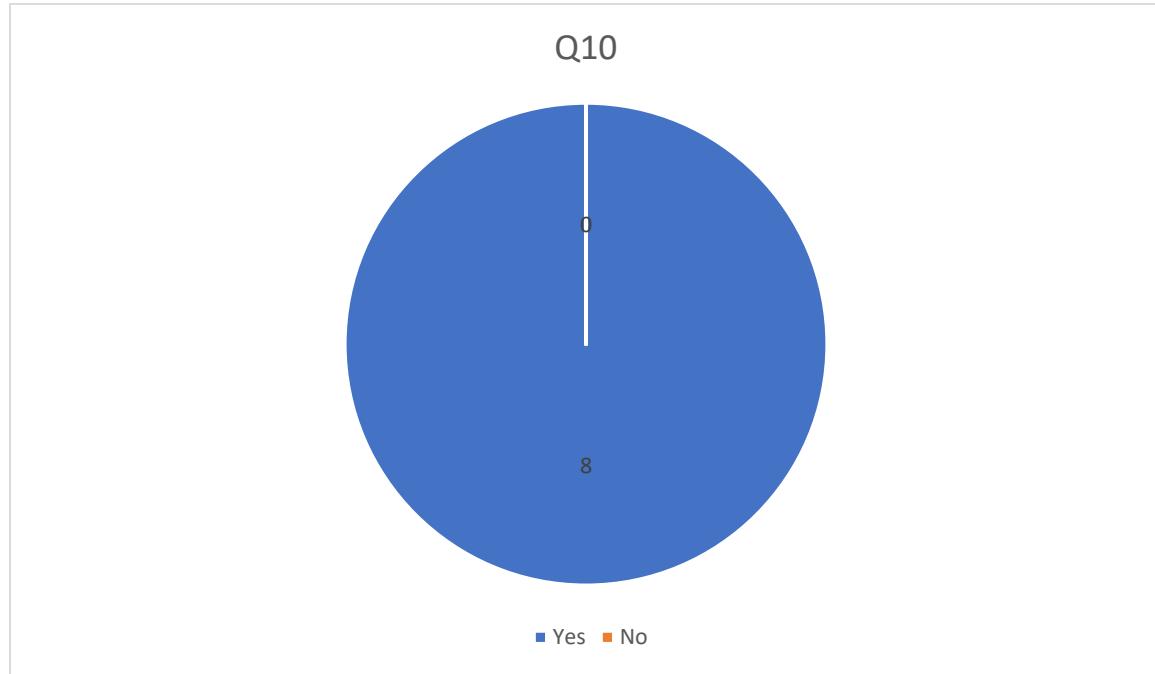
**Figure 46.** Q8 Result: Did you encounter a problem while testing the system?

The problems encountered by the respondents were a result of an intermittent internet connection. Other respondents that voted yes had a stable connection upon testing the system.



**Figure 47.** Q9 Result: Are you satisfied with the features of the system?

All surveyed personnel think that the features of the system as a student attendance monitoring system is enough.



**Figure 48.** Q10 Result: If used regularly, do you think that the system can improve your overall attendance taking experience?

All surveyed personnel agreed that if the system was to be used as regular student attendance monitoring system inside STI College Santa Rosa can improve their overall attendance taking experience.

## **Chapter V:**

### **Conclusions and Recommendations**

The result of the survey translates to the effectiveness of the developer's developed system. The goal to improve STI College Santa Rosa's student attendance monitoring system has been successful as all the 8 respondents in STI College Santa Rosa thinks that the system has improved their attendance monitoring experience, and all the survey questions result came out positive.

The developer's plan to create a web application for a student attendance monitoring system made all this possible. With a wide variety of technology available for web applications, the developer's make use of them to fulfill the goal of this study.

For future researchers, since the system developed by the developer's only covers the attendance of students, they suggest removing that limitation and expand the features of the system to not only student attendance but also professors' attendance. This will make the system more effective not only for the professors of STI College Santa Rosa but also to their management. The developers also recommend adding a feature in the system where a student may take a schedule based on their section, in which manner could make the assigning of schedule to each student a lot easier also, the taking of attendance for each subject is only limited to the instructor handling it thus limits the system to be used by a substitute teacher which can be improved if a feature is added where a specific instructor may take the attendance of a subject on behalf of the absent instructor.

The scale of the system the developers created opens many possibilities in terms of usage even beyond the scope of the system. With the current status of the system, the developers are hopeful that the system they developed will be an inspiration and a starting point for future researchers and developers on improving its current features. ss

## APPENDIX

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[links/584991e508aed5252bcbe306/Attendance-Management-System-Using-Barcode-Identification-on-Students-Identity-Cards.pdf](https://www.researchgate.net/publication/311511130_Attendance_Management_System_Using_Barcod.../links/584991e508aed5252bcbe306/Attendance-Management-System-Using-Barcode-Identification-on-Students-Identity-Cards.pdf)

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## Resource Person

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## **RELEVANT SOURCE CODE**

The source code pasted here will consist of only the external library used and the firebase queries used across the system. The front-end design code of the system will not be included as it is very straightforward and is made with pure html + css + javascript. The system mainly used CDN or Content Delivery Network. A content delivery network, or content distribution network, is a geographically distributed network of proxy servers and their data centers. The goal is to provide high availability and performance by distributing the service spatially relative to end users. (Source: <https://www.cdnetworks.com/web-performance-blog/cdn-benefits/>)

### **External CSS Libraries & their function in the system.**

#### *CDN for Icons:*

```
1 <link href='https://unpkg.com/boxicons@2.0.7/css/boxicons.min.css' 
1 rel='stylesheet'
2 <link href="https://fonts.googleapis.com/icon?family=Material+Icons"
2 rel="stylesheet" />
```

#### *CDN for Div Animations:*

```
1 <link href="https://unpkg.com/aos@2.3.1/dist-aos.css"
1 rel="stylesheet">
```

#### *CDN for DataTable design and functions:*

```
1 <link
1 href="//cdn.datatables.net/1.11.3/css/jquery.dataTables.min.css"
1 rel="stylesheet" />
2 <link
2 href="//cdn.datatables.net/buttons/2.0.1/css/buttons.dataTables.min.c
2 ss" rel="stylesheet"
```

### **External Script Libraries & their function in the system.**

#### *CDN for JQuery*

```

1 <script
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.6.0/jquery.js"
integrity="sha512-
n/4gHW3atM3QqRcbCn6ewmpxcLAHGaDjpEBu4xZd47N0W2oQ+6q7oc3PXstrJYXcbNU1O
HdQ1T7pAP+gi5Yu8g==" crossorigin="anonymous" referrerPolicy="no-
referrer"></script>

```

*CDN for Data tables including export options button*

```

<script
src="https://cdn.datatables.net/buttons/2.0.1/js/dataTables.buttons.min.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/jszip/3.1.3/jszip.min.js"
></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/pdfmake/0.1.53/pdfmake.min.js"
></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/pdfmake/0.1.53/vfs_fonts.js"
></script>
<script
src="https://cdn.datatables.net/buttons/2.0.1/js/buttons.html5.min.js"
></script>
<script
src="https://cdn.datatables.net/buttons/2.0.1/js/buttons.print.min.js"
></script>

```

*CDN for Div Animation*

```

1 <script src="https://unpkg.com/aos@2.3.1/dist-aos.js"></script>

```

*CDN for Charts*

```

1 <script type="text/javascript"
src="https://www.gstatic.com/charts/loader.js"></script>

```

*CDN for Google Firebase Database*

```

1 <!-- Firebase App (the core Firebase SDK) is always required and
2 must be listed first -->
3 <script src="https://www.gstatic.com/firebasejs/8.10.0.firebaseio-
4 app.js"></script>
5

```

```

6   <!-- If you enabled Analytics in your project, add the Firebase
7 SDK for Analytics -->
8   <script src="https://www.gstatic.com/firebasejs/8.10.0.firebaseio-
9 analytics.js"></script>
10
11  <!-- Add Firebase products that you want to use -->
12  <script src="https://www.gstatic.com/firebasejs/8.10.0.firebaseio-
13 auth.js"></script>
14  <script src="https://www.gstatic.com/firebasejs/8.10.0.firebaseio-
15 firestore.js"></script>
16  <script src="https://www.gstatic.com/firebasejs/8.10.0.firebaseio-
17 database.js"></script>

```

**The following code snippets are Firebase functions for Authenticating users and CRUD Operations which is used across the system without the logics applied:**

*Code Snippet for User Log In authentication*

```

1  function Login() {
2      var email = $("#username").val();
3      var password = $("#password").val();
4
5
6
7      firebase
8          .auth()
9          .signInWithEmailAndPassword(
10              email,
11              password
12          )
13          .then((userCredential) => {
14              // Signed in
15              var user = userCredential.user;
16              // window.location.href = 'main.html?userid=' +
17 userCredential.uid;
18
19
20              firebase.auth().onAuthStateChanged((user) => {
21                  if (user) {
22                      // User is signed in, see docs for a list of
23 available properties
24                      //
25 https://firebase.google.com/docs/reference/js.firebaseio.User
26                      let uid = user.uid;
27                      firebase.database().ref('User/' +
28 uid).on('value', snap => {
29                          let Account_Type =
30 snap.child('Account_Type').val();
31

```

```

32                                     // localStorage.setItem("ACC_TYPE",
33 Account_Type);
34                                     });
35                                     // ...
36     } else {
37         // User is signed out
38         // ...
39
40     }
41 );
42
43 })
44 .catch((error) => {
45     var errorCode = error.code;
46     var errorMessage = error.message;
47     console.log(errorCode + ":" + errorMessage);
48     switch (errorCode) {
49         case "auth/user-not-found":
50             $(".login-status")
51                 .html("Wrong Username or Password")
52                 .css("display", "block")
53                 .css("color", "var(--red)");
54             break;
55         case "auth/wrong-password":
56             $(".login-status")
57                 .html("Wrong Username or Password")
58                 .css("display", "block")
59                 .css("color", "var(--red)");
60             break;
61         case "auth/invalid-email":
62             $(".login-status")
63                 .html("Invalid Username")
64                 .css("display", "block")
65                 .css("color", "var(--red)");
66             break;
67     }
68 });
69
70 }

```

### *Code Snippet for checking current user*

```

1 firebase.auth().onAuthStateChanged((user) => {
2     if (user) {
3         // User is signed in, see docs for a list of available
4         properties
5         //
6         https://firebase.google.com/docs/reference/js/firebase.User
7

```

```

8     window.location.href = 'main.html?id=' + user.uid;
9     // ...
10    } else {
11        // User is signed out
12        // ...
13    }
14 });

```

### *Creating New User Account*

```

1 function Signup(email, password) {
2     firebase
3         .auth()
4         .createUserWithEmailAndPassword(email,
5             password)
6         .then((userCredential) => {
7             // Signed in
8             var user = userCredential.user;
9             // ...
10            })
11            .catch((error) => {
12                var errorCode = error.code;
13                var errorMessage = error.message;
14
15                console.log(errorCode + ":" + errorMessage);
16
17                switch (errorCode) {
18                    case "":
19                        break;
20                    }
21                    // ...
22                });
23 }

```

The following snippet will be firebase function for CRUD operation (Create, Update, Delete) For complete documentation visit:

<https://firebase.google.com/docs/database/web/read-and-write>

### *Basic Write Operation*

```

1 import { getDatabase, ref, set } from "firebase/database";
2
3 function writeUserData(userId, name, email, imageUrl) {
4     const db = getDatabase();
5     set(ref(db, 'users/' + userId), {

```

```
6   username: name,
7   email: email,
8   profile_picture : imageUrl
9 });
10 }
```

### Basic Read Operation

```
1 import { getDatabase, ref, onValue} from "firebase/database";
2
3 const db = getDatabase();
4 const starCountRef = ref(db, 'posts/' + postId + '/starCount');
5 onValue(starCountRef, (snapshot) => {
6   const data = snapshot.val();
7   updateStarCount(postElement, data);
8});
```

### Update operation

```
1 function writeNewPost(uid, username, picture, title, body) {
2   const db = getDatabase();
3
4   // A post entry.
5   const postData = {
6     author: username,
7     uid: uid,
8     body: body,
9     title: title,
10    starCount: 0,
11    authorPic: picture
12  };
13
14  // Get a key for a new Post.
15  const newPostKey = push(child(ref(db), 'posts')).key;
16
17  // Write the new post's data simultaneously in the posts list and
18  // the user's post list.
19  const updates = {};
20  updates['/posts/' + newPostKey] = postData;
21  updates['/user-posts/' + uid + '/' + newPostKey] = postData;
22
23  return update(ref(db), updates);
}
```

## *Deleting Data*

The simplest way to delete data is to call remove() on a reference to the location of that data.

You can also delete by specifying null as the value for another write operation such as set() or update(). You can use this technique with update() to delete multiple children in a single API call.

## **Evaluation Tool or Test Documents**

<b>RFID Reader/Writer Module</b>				
<b>Test Description</b>	<b>Test Data</b>	<b>Expected Result</b>	<b>Actual Result</b>	<b>Status</b>
Connect RFID Reader hardware to user computer and tap an RFID card ID while gate attendance account is logged in to the system.	13.56MHz RFID card contains Student ID with value 02000017275 that is assigned to a student named Mitch A. Serrano	When the user tapped in the RFID card to the reader, the system should be able to display the user's information in the screen	The user taps the ID in the reader and the system displayed the user information associated with the card ID.	<b>Passed</b>

**Table 6.** RFID Reader/Writer Module test.

<b>Log-in Module</b>				
<b>Test Description</b>	<b>Test Data</b>	<b>Expected Result</b>	<b>Actual Result</b>	<b>Status</b>
The user accesses the system and log-in using an email and password given by the dean.	Email: <a href="mailto:ser.mitch2k@gmail.com">ser.mitch2k@gmail.com</a> Pass: admin01234	The user can log in to the system as a faculty using the given log-in credentials.	The user log-in to the system using the given log-in credentials as a faculty	<b>Passed</b>

**Table 7.** Log-in Module test.

<b>File Maintenance Module</b>				
<b>Test Description</b>	<b>Test Data</b>	<b>Expected Result</b>	<b>Actual Result</b>	<b>Status</b>

In this test the user should be able to do the basic file maintenance actions such as Add, Edit, and Delete in the system	The following data is a student data. <b>Card ID:</b> 020303020 <b>First Name:</b> John <b>Middle Name:</b> Lit <b>Last Name:</b> Doe <b>Contact Number:</b> 096349239923 <b>Email:</b> <a href="mailto:JohnDoe@sticollege.santarosa.com">JohnDoe@sticollege.santarosa.com</a> <b>Address:</b> 732 Beach Drive Ave., Makati City, Philippines.	The user will be able to enter the following data in the system.	The data entered successfully.	Passed
-	Change Mobile number to 0934828121	The user will be able to edit the contact number of the John Doe	The contact number is updated.	Passed
	Delete User Data	The data is deleted in the system.	The data is deleted in the system.	Passed

**Table 8.** File Maintenance Module test.

Report Generation Module				
Test Description	Test Data	Expected Result	Actual Result	Status

This is to test the ability of the system to generate attendance reports.	<b>Name:</b> John Doe <b>Status:</b> Present	The status of the test data should be added to the overall number of present and the user should see the number of presents and absents in a dashboard as a pie or line report.	John Doe is marked as present in that specific date and is added to the total number of present in that specific date. The system generates the total number as a pie and line report.	<b>Passed</b>
---	---	---	--	---------------

**Table 9.** Report Generation Module test.

## **Sample Input/Output/Reports**

*Student / Faculty Schedule on Excel, PDF, and Print format*

Schedule- ATMS					
1	A	B	C	D	E
2	Title	Day	Time	Location	Professor
3	Legal Aspects in Tour & Hosp	Monday	15:30-17:00	b3106	Tongko, Christian Dela Cruz
4	Readings in Philippine History	Monday	08:00-11:00	b3104	Florendo, Nikki Jerome C
5	Discrete Structures 1 (DM)	Tuesday	14:00-17:00	b3205	Mortera, Immanuel P
6	Strategic Management	Wednesday	13:00-16:00	b3204	Marquez, Joahanna N/A
7	Communication Arts 3	Thursday	13:00-14:30	b3102	League, Raymond N/A
8	CWTS 1	Thursday	13:00-16:00	b3104	Tan, Egmedio B
9	Physical Education 1 (PF & C)	Friday	08:00-10:00	b3204	Cajumban, Chester Mercado
10					

Schedule					
Subject	Day	Time	Section	Room	Instructor
NM1003	Monday,Tuesday	08:18-10:18	No section assign!	B1101	Bustamante, Alexie Abaño
Dummy Subject	Monday	13:00:00-15:45:00	No section assign!	B2101	Saga, Alexander Pelin
Dummy Subject	Monday	13:00:00-15:45:00	No section assign!	B2101	Seranno, Mitch Almarinez
Business Oper Prac (600 hours)	Monday	10:00-13:00	No section assign!	B2203	Lazaga, Rostelito N/A
Ethics	Monday	12:00-15:00	No section assign!	B2105	Palma, Miguel Alfonso P
CWTS 1	Tuesday	08:00-11:00	No section assign!	B1101	Bustamante, Alexie Abaño
NSTP 1	Tuesday	08:00-11:00	No section assign!	B1205	Bustamante, Alexie Abaño
Physical Education 1 (PF & C)	Tuesday	11:00-13:00	No section assign!	B1101	Cabasag, Richard Lagumbay
Physical Education 1	Tuesday	11:00-13:00	No section assign!	B2206	Cabasag, Richard Lagumbay
Systems Admin & Maintenance	Wednesday	13:00-16:00	No section assign!	b3106	Gamboa, Lucita N/A
Legal Aspects in Tour & Hosp	Saturday	08:00-10:00	No section assign!	B1101	Tongko, Christian Dela Cruz

This Schedule is printed on Fri Jan 21 2022 16:10:25 GMT+0800 (Singapore Standard Time)  
Printed By: Mitch Seranno

**Print**

Total: 1 page

---

**Printer**

Save as PDF

---

**Layout**

Portrait

Landscape

---

**Pages**

All

e.g. 1-5, 8, 11-13

---

More settings ▾

Troubleshoot printer issues

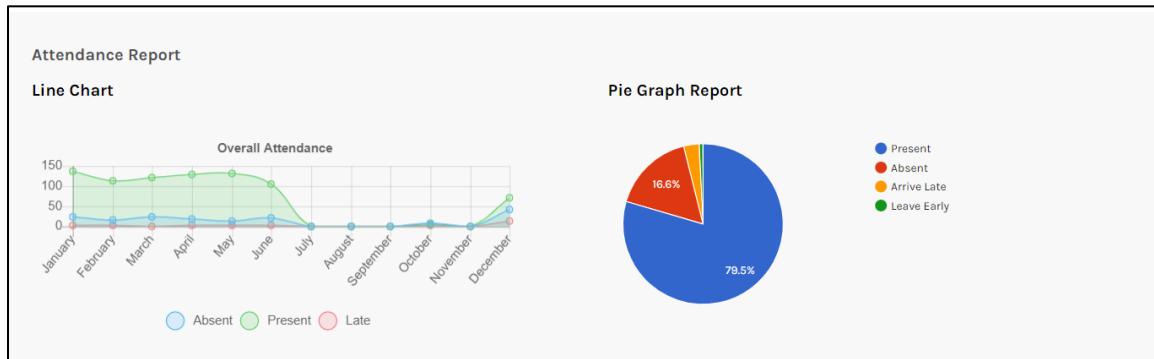
---

**Save**   **Cancel**

**Schedule- ATMS**

Title	Day	Time	Location	Professor
Legal Aspects in Tour & Hosp	Monday	15:30-17:00	b3106	Tongko, Christian Dela Cruz
Readings in Philippine History	Monday	08:00-11:00	b3104	Florendo, Nikki Jerome C
Discrete Structures 1 (DM)	Tuesday	14:00-17:00	b3205	Mortera, Immanuel P
Strategic Management	Wednesday	13:00-16:00	b3204	Marquez, Johanna N/A
Communication Arts 3	Thursday	13:00-14:30	b3102	League, Raymond N/A
CWTS 1	Thursday	13:00-16:00	b3104	Tan, Egmedio B
Physical Education 1 (PF & C)	Friday	08:00-10:00	b3204	Cajumban, Chester Mercado

*Overall Data tally through chart reports*



*Overall Data tally through Excel, PDF, and Print*

AutoSave (Off) Attendance Report- ATMS - Protected View Search (Alt+Q)

File Home Insert Page Layout Formulas Data Review View Help Acrobat

**PROTECTED VIEW** Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View.

A1 Attendance Report- ATMS

	A	B	C	D	E
1	Attendance Report- ATMS				
2	ID	Name	Days Present	Days Absent	Days Late
3	STUD1000002	Saga, Alexander Pelin	114	57	17
4	STUD1000076	Ince, Edward Hunt	188	24	1
5	STUD1000077	Springer, Yvonne Perrie	170	33	9
6	STUD1000078	White, Diane Ansley	176	31	6
7	STUD1000079	Ogden, Charles Chris	171	31	10
8	STUD1000080	Hart, Benjamin Giordano	178	28	7
9	STUD1000081	Roberts, Keith Bailey	186	25	1
10	STUD1000082	Rosetti, Cameron Lawrence	193	34	12
11	STUD1000083	Knox, Audrey Robena	205	26	8
12	STUD1000084	Lambert, Jack Ricky	194	35	9
13	STUD1000085	Newman, Liam Cuanco	204	27	8
14	STUD1000086	Welch, Dylan Lopez	175	34	4
15	STUD1000087	Hudson, Sally Santiago	183	22	8

## Attendance Report- ATMS

ID	Name	Days Present	Days Absent	Days Late
STUD1000002	Saga, Alexander Pelin	114	57	17
STUD1000076	Ince, Edward Hunt	188	24	1
STUD1000077	Springer, Yvonne Perrie	170	33	9
STUD1000078	White, Diane Ansley	176	31	6
STUD1000079	Ogden, Charles Chris	171	31	10
STUD1000080	Hart, Benjamin Giordano	178	28	7
STUD1000081	Roberts, Keith Bailey	186	25	1
STUD1000082	Rosetti, Cameron Lawrence	193	34	12
STUD1000083	Knox, Audrey Robena	205	26	8
STUD1000084	Lambert, Jack Ricky	194	35	9
STUD1000085	Newman, Liam Cuanco	204	27	8
STUD1000086	Welch, Dylan Lopez	175	34	4
STUD1000087	Hudson, Sally Santiago	183	22	8
STUD1000088	Marshall, Kimberly Quizon	171	39	4
STUD1000089	Alsop, Madeleine Quintana	155	35	1
STUD1000089	Alsop, Madeleine Quintana	155	35	1
STUD1000090	Edmunds, Jacob Lascano	147	38	7
STUD1000090	Edmunds, Jacob Lascano	147	38	7
STUD1000091	Ogden, Anthony Montez	145	35	4
STUD1000092	Langdon, Tim Manlapas	130	24	4
STUD1000093	Knox, Bernadette Uson	139	17	2
STUD1000094	Mills, Lily Tuzon	122	30	6
STUD1000095	Cameron, Pippa Laureta	127	23	7
STUD1000096	Terry, Victoria Soliva	127	24	6

**Print**

Total: 2 pages

**Printer**

Save as PDF

**Layout**

Portrait

Landscape

**Pages**

All

Odd pages only

Even pages only

e.g. 1-5, 8, 11-13

More settings ▾

Troubleshoot printer issues

**Save**   **Cancel**

### Attendance Report- ATMS

ID	Name	Days Present	Days Absent	Days Late
STUD1000002	Saga, Alexander Pelin	114	57	17
STUD1000076	Ince, Edward Hunt	188	24	1
STUD1000077	Springer, Yvonne Perrie	170	33	9
STUD1000078	White, Diane Ansley	176	31	6
STUD1000079	Ogden, Charles Chris	171	31	10
STUD1000080	Hart, Benjamin Giordano	178	28	7
STUD1000081	Roberts, Keith Bailey	186	25	1
STUD1000082	Rosetti, Cameron Lawrence	193	34	12
STUD1000083	Knox, Audrey Robena	205	26	8
STUD1000084	Lambert, Jack Ricky	194	35	9
STUD1000085	Newman, Liam Cuanco	204	27	8
STUD1000086	Welch, Dylan Lopez	175	34	4
STUD1000087	Hudson, Sally Santiago	183	22	8
STUD1000088	Marshall, Kimberly Quizon	171	39	4
STUD1000089	Alsop, Madeleine Quintana	155	35	1
STUD1000089	Alsop, Madeleine Quintana	155	35	1

*List of reported students report in Excel, PDF, and Print*

Reported- ATMS - Protected View

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View.

Enable Editing

A1	B	C	D
	Reported- ATMS		
1			
2	<b>Name</b>	<b>Reason</b>	<b>Reported By</b>
3	Quinn, Jason Ledwaba	Cheatin in class	Seranno, Mitch Almarinez
4	Larry, Mitchell Reyes	Marami ng report	Lore, Lexi Rodriguez
5	Mathis, Jessica Couldron	Not wearing proper uniform	Florendo, Nikki Jerome C
6	Dowd, Sebastian Guevarra	Disrespectful	Junio, Enrique S
7	Murray, Victoria Shani	nagpaalam na ihi pero di na bumalik.	Tan, Egnedio B
8	Bond, Rose Brooke	pinapatay aircon	League, Raymond N/A
9	Fraser, Anthony Kovar	Eating in class. Being disrespectful	Gamboa, Lucita N/A
10	Cameron, Pippa Laureta	nanuntok ng kaklase	Bejar, Rouse Adam E
11	Terry, Victoria Soliva	nahuli nag cicutting sa reivee	Bejar, Rouse Adam E
12	Ogden, Charles Chris	Sleeping in Class.	Mortera, Immanuel P
13	Alsop, Madeleine Quintana	Always Late. Always Absent. Does not give a valid reason for her a	Imortera, Immanuel P
14			

## Reported- ATMS

Name	Reason	Reported By	Reported Date
Quinn, Jason Ledwaba	Cheatin in class	Seranno, Mitch Almarinez	12-21-2021, 10:11:37 AM
Larry, Mitchell Reyes	Marami ng report	Lore, Lexi Rodriguez	12-15-2021, 01:24:17 PM
Mathis, Jessica Couldron	Not wearing proper uniform	Florendo, Nikki Jerome C	12-14-2021, 05:07:03 PM
Dowd, Sebastian Guevarra	Disrespectful	Junio, Enrique S	12-2-2021, 11:43:32 PM
Murray, Victoria Shani	nagpaalam na iihii pero di na bumalik.	Tan, Egmedio B	12-2-2021, 10:56:55 PM
Bond, Rose Brooke	pinapatay aircon	League, Raymond N/A	12-2-2021, 10:46:12 PM
Fraser, Anthony Kovar	Eating in class. Being disrespectful	Gamboa, Lucita N/A	12-2-2021, 09:33:11 PM
Cameron, Pippa Laureta	nanuntok ng kaklase	Bejar, Rouse Adam E	12-2-2021, 09:24:51 PM
Terry, Victoria Soliva	nahuli nag cicutting sa reivee	Bejar, Rouse Adam E	12-2-2021, 09:24:19 PM
Ogden, Charles Chris	Sleeping in Class.	Mortera, Immanuel P	12-2-2021, 09:14:42 PM
Alsop, Madeleine Quintana	Always Late. Always Absent. Does not give a valid reason for her attendance performance.	Mortera, Immanuel P	12-2-2021, 09:13:22 PM

**Print** ?

Total: 1 page

**Printer** Save as PDF

**Layout**  Portrait  Landscape

**Pages**  All  e.g. 1-5, 8, 11-13

[More settings](#) ▼

[Troubleshoot printer issues](#)

Save Cancel

## Reported- ATMS

Name	Reason	Reported By	Reported Date
Quinn, Jason Ledwaba	Cheatin in class	Seranno, Mitch Almarinez	12-21-2021, 10:11:37 AM
Larry, Mitchell Reyes	Marami ng report	Lore, Lexi Rodriguez	12-15-2021, 01:24:17 PM
Mathis, Jessica Couldron	Not wearing proper uniform	Florendo, Nikki Jerome C	12-14-2021, 05:07:03 PM
Dowd, Sebastian Guevarra	Disrespectful	Junio, Enrique S	12-2-2021, 11:43:32 PM
Murray, Victoria Shani	nagpaalam na iihii pero di na bumalik.	Tan, Egmedio B	12-2-2021, 10:56:55 PM
Bond, Rose Brooke	pinapatay aircon	League, Raymond N/A	12-2-2021, 10:46:12 PM
Fraser, Anthony Kovar	Eating in class. Being disrespectful	Gamboa, Lucita N/A	12-2-2021, 09:33:11 PM

## Sample report of Archived reported students in excel, PDF, and Print

Protected View - Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View.

Enable Editing

	A	B	C	D	E	F	G
1				Archive - ATMS			
2	Name	Reason	Report By	Report Date	Action	Status	
3	Hudson, Sally Santiago	cutting class	Tongko, Christian Dela Cruz	1-5-2022, 12:02:39 PM	No action taken	Cancel - Move to Archive	
4	Marshall, Kimberly Quizon	always absent, never present	Tongko, Christian Dela Cruz	1-5-2022, 12:01:47 PM	Disciplinary Sanction	Action Taken	
5	Lambert, Jack Ricky	Eating in class	Tongko, Christian Dela Cruz	1-3-2022, 02:10:05 PM	Verbal Communication, Disciplinary Sanction	Action Taken	
6	Lee, Frank Chua	Cheating during exam	Abibug, Iris Faye R	1-3-2022, 11:45:57 AM	Verbal Communication	Action Taken	
7	Quinn, Jason Ledwaba	Eatin in class	Seranno, Mitch Almarinez	12-17-2021, 11:28:49 AM	Disciplinary sanction	Action Taken	
8	Roberts, Keith Bailey	Using Laptop during pe	Mortera, Immanuel P	12-16-2021, 03:50:13 PM	Verbal Communication , Disciplinary Sanction	Action Taken	
9	Roberts, Keith Bailey	using cp during lecture	Mortera, Immanuel P	12-16-2021, 03:49:22 PM	No action taken	Cancel - Move to Archive	
10	Larry, Mitchell Reyes	Cutting classes	Lore, Lexi Rodriguez	12-15-2021, 01:21:29 PM	verbal abuse on another student	Action Taken	
11	Duncan, Joseph Porter	Eating In Class	Lore, Lexi Rodriguez	12-15-2021, 01:18:19 PM	eating during class	Action Taken	
12	Quinn, Jason Ledwaba	Cutting classes/early out	Almazan, Cherrevlyne V	12-14-2021, 05:33:13 PM	Suspension for 3 days	Action Taken	
13	Russell, Dorothy Torch	sample report 2	League, Raymond N/A	12-14-2021, 05:10:39 PM	bb	Action Taken	
14	Quinn, Jason Ledwaba	always absent	Gambao, Lucita N/A	12-14-2021, 05:09:47 PM	nn	Action Taken	
15	Bower, Mary Morty	Sample Report	League, Raymond N/A	12-14-2021, 05:09:33 PM	nn	Action Taken	
16	Larry, Mitchell Reyes	Report 1	Saga, Alexander Pelin	12-14-2021, 05:08:59 PM	dummy	Action Taken	
17	Larry, Mitchell Reyes	Report 8	Saga, Alexander Pelin	12-14-2021, 05:08:38 PM	dummy	Action Taken	
18	Saga, Alexander Pelin	Nopspakopya	Gambao, Lucita N/A	12-14-2021, 05:03:10 PM	Disciplinary Action	Action Taken	
19	Bell, Stewart Lane	Eating in class(2)	League, Raymond N/A	12-9-2021, 10:25:18 PM	Parental Talk and disciplinary sanction	Action Taken	
20	Bell, Stewart Lane	Eating in class	League, Raymond N/A	12-9-2021, 10:24:04 PM	No action taken	Cancel - Move to Archive	
21	Larry, Mitchell Reyes	Report 5	Saga, Alexander Pelin	11-15-2021, 01:14:21 AM	Taken	Action Taken	
22	Larry, Mitchell Reyes	Report 4	Saga, Alexander Pelin	11-15-2021, 11:48:17 PM	abc	Action Taken	
23	Larry, Mitchell Reyes	Report 3	Saga, Alexander Pelin	11-15-2021, 11:47:37 PM	abc	Action Taken	
24	Larry, Mitchell Reyes	Report 2	Saga, Alexander Pelin	11-15-2021, 11:46:27 PM	--	Action Taken	
25	Larry, Mitchell Reyes	Report 1	Saga, Alexander Pelin	11-15-2021, 11:46:14 PM	No action taken	Cancel - Move to Archive	

### Archive - ATMS

Name	Reason	Report By	Report Date	Action	Status
Hudson, Sally Santiago	cutting class	Tongko, Christian Dela Cruz	1-5-2022, 12:02:39 PM	No action taken	Cancel - Move to Archive
Marshall, Kimberly Quizon	always absent, never present	Tongko, Christian Dela Cruz	1-5-2022, 12:01:47 PM	Disciplinary Sanction	Action Taken
Lambert, Jack Ricky	Eating in class	Tongko, Christian Dela Cruz	1-3-2022, 02:10:05 PM	Verbal Communication, Disciplinary Sanction	Action Taken
Lee, Frank Chua	Cheating during exam	Abibug, Iris Faye R	1-3-2022, 11:45:57 AM	Verbal Communication	Action Taken
Quinn, Jason Ledwaba	Eatin in class	Seranno, Mitch Almarinez	12-17-2021, 11:28:49 AM	Disciplinary sanction	Action Taken
Roberts, Keith Bailey	Using Laptop during pe	Mortera, Immanuel P	12-16-2021, 03:50:13 PM	Verbal Communication , Disciplinary Sanction	Action Taken
Roberts, Keith Bailey	using cp during lecture	Mortera, Immanuel P	12-16-2021, 03:49:22 PM	No action taken	Cancel - Move to Archive
Larry, Mitchell Reyes	Cutting classes	Lore, Lexi Rodriguez	12-15-2021, 01:21:29 PM	verbal abuse on another student	Action Taken
Duncan, Joseph Porter	Eating In Class	Lore, Lexi Rodriguez	12-15-2021, 01:18:19 PM	eating during class	Action Taken
Quinn, Jason Ledwaba	Cutting classes/early out	Almazan, Cherrevlyne V	12-14-2021, 05:33:13 PM	Suspension for 3 days	Action Taken

**Print**

Total: 2 pages

**Printer**

Save as PDF

**Layout**

Portrait

Landscape

**Pages**

All

Odd pages only

Even pages only

e.g. 1-5, 8, 11-13

More settings

Troubleshoot printer issues

**Save** **Cancel**

### Archive - ATMS

Name	Reason	Report By	Report Date	Action	Status
Hudson, Sally Santiago	cutting class	Tongko, Christian Dela Cruz	1-5-2022, 12:02:39 PM	No action taken	Cancel - Move to Archive
Marshall, Kimberly Quizon	always absent, never present	Tongko, Christian Dela Cruz	1-5-2022, 12:01:47 PM	Disciplinary Sanction	Action Taken
Lambert, Jack Ricky	Eating in class	Tongko, Christian Dela Cruz	1-3-2022, 02:10:05 PM	Verbal Communication, Disciplinary Sanction	Action Taken
Lee, Frank Chua	Cheating during exam	Abibug, Iris Faye R	1-3-2022, 11:45:57 AM	Verbal Communication	Action Taken
Quinn, Jason Ledwaba	Eatin in class	Seranno, Mitch Almarinez	12-17-2021, 11:28:49 AM	Disciplinary sanction	Action Taken
Roberts, Keith Bailey	Using Laptop during pe	Mortera, Immanuel P	12-16-2021, 03:50:13 PM	Verbal Communication, Disciplinary Sanction	Action Taken
Roberts, Keith Bailey	using cp during lecture	Mortera, Immanuel P	12-16-2021, 03:49:22 PM	No action taken	Cancel - Move to Archive
Larry,	Cutting	Lara Javi	12-15-2021, 03:49:22 PM	Verbal Communication	Action Taken

*Gate Logs sample report: Same format goes for excel, PDF, and Print options so it is irrelevant to include them all.*

Excel
PDF
Print
Search:

Name	ID	Type	Date/Time	Location	Action
Tongko, Christian Dela Cruz	FACU1000016	Professor	12-23-2021 12:28:48 PM	B2	Tap In
Tongko, Christian Dela Cruz	FACU1000016	Professor	12-21-2021 10:14:08 AM	B2	Tap In
Tongko, Christian Dela Cruz	FACU1000016	Professor	12-20-2021 11:24:36 AM	B2	Tap In
Tongko, Christian Dela Cruz	FACU1000016	Professor	12-20-2021 11:11:20 AM	B2	Tap Out
Tongko, Christian Dela Cruz	FACU1000016	Professor	12-20-2021 11:11:15 AM	B2	Tap In
Tongko, Christian Dela Cruz	FACU1000016	Professor	12-20-2021 11:11:03 AM	B2	Tap In
Tongko, Christian Dela Cruz	FACU1000016	Professor	12-20-2021 11:10:58 AM	B2	Tap Out
Tongko, Christian Dela Cruz	FACU1000016	Professor	12-20-2021 11:10:53 AM	B2	Tap In
Tongko, Christian Dela Cruz	FACU1000016	Professor	12-20-2021 11:02:52 AM	B2	Tap In
Tongko, Christian Dela Cruz					

## **USERS MANUAL**

# User Manual

## Attendance Monitoring System

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## User Accounts

ATMS or Attendance Monitoring System have 4 different user account types. Each account have different function and purposes.

This feature offers security and manageability for the client.

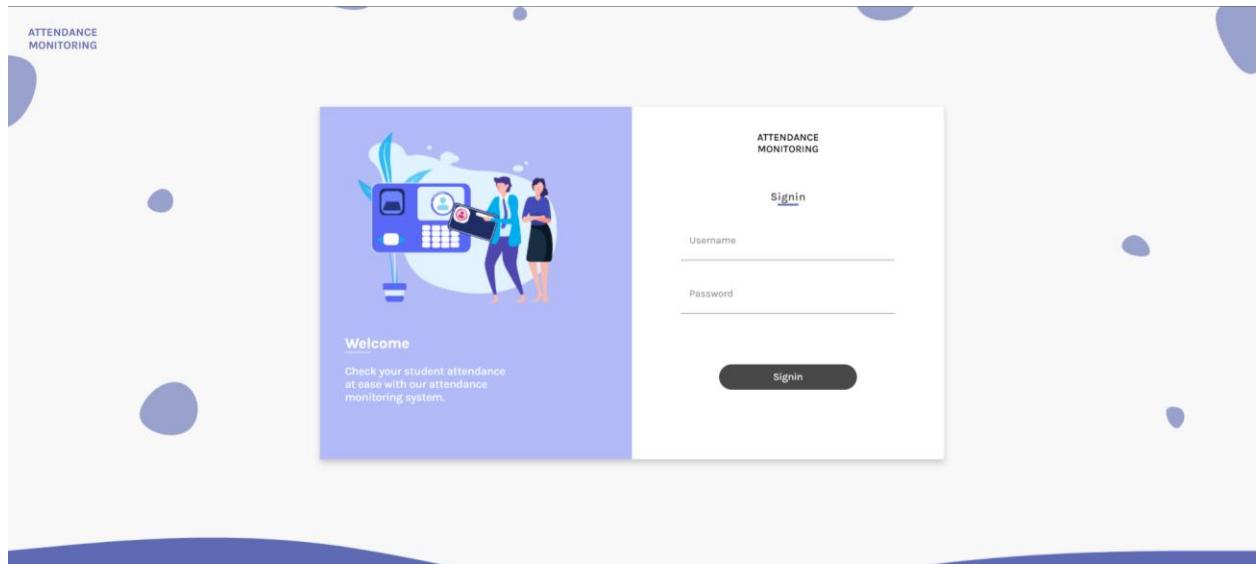
### Account types and permission

- Administrator Account
  - The Administrator Account handles the managing of users, subject, permission, adding class, adding/editing/deleting a users account, adding/editing/deleting a subject, changing the academic year, giving permission such as tap in first before accessing the attendance, allowing a user to take attendance, see the total number of students, total number of present students, absent students, and number of late students.
- Faculty Account
  - Faculty Account are given to the faculty of the campus They are permitted to see the student attendance, their schedule for the day, attendance report of student. Faculty accounts, in their dashboard will be able to see the student statistics, ie the total number of students that they handle, the total number who are absent, present, and late. They will also see a pie report and line report. Pie report for the statistics on the percentage of the students who are absent, present, and late. Line report for the application usage, or how many users have accessed the website per month. Faculty accounts have a permission to access the class attendance, they can set if a student is absent in class, present in class, late in class, or a student who is absent with remarks or a valid reason why they are absent.
- Guidance Account
  - Guidance account are given to the guidance of the campus. Guidance accounts are able to see the total number of students, the schedule of the professors and students, the attendance report, and the reported students. Guidance can also take actions to those reported students, or move them to archive.
- Gate Account
  - Gate account will be given to the guards of the campus. Gate account will be able to see the information in the id, the picture, and time of the person who did tap in the gate tap in and out.

## Signin

### Account Signin

Before users can access the attendance monitoring system website, they first need to signin using their account. The account username and password will be given by the administrator.

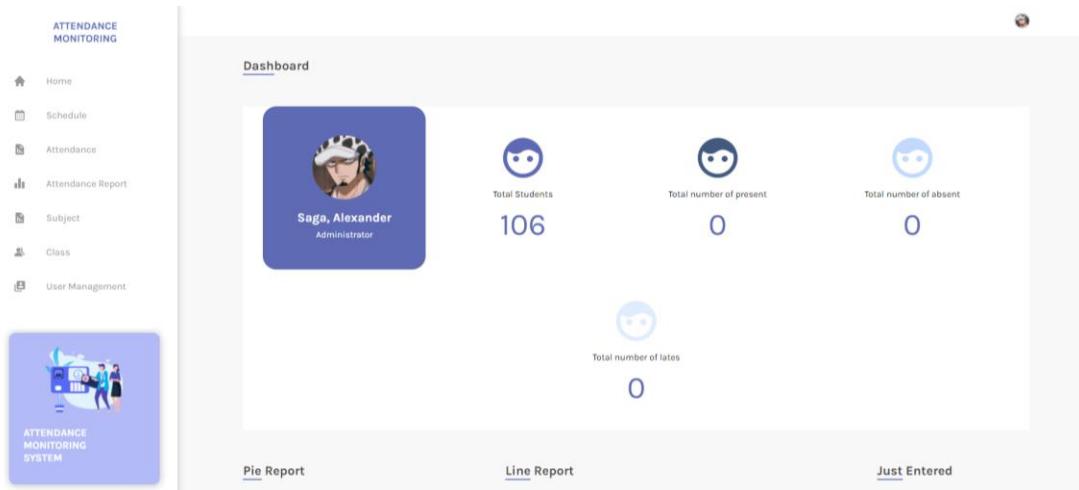


This is the signin page where users will put their username and password given by the administrator. User will put in their username in the username textbox and their password in the password text box, and after putting their username and password, select the **Signin** button

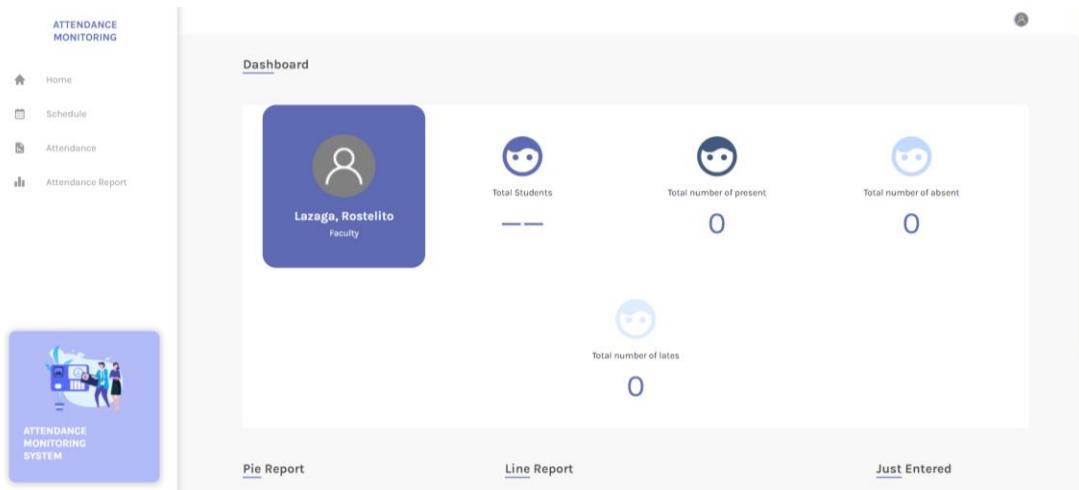
# Dashboard

## Dashboard

The dashboard page or home page is the next page users will see after they sign in. The dashboard allows user to see their profile picture, their name, their account type, the total number of students, total number of students who are present, absent, and late. And on the right side of the website is the navigation which will take user into different tab pages of the site.



The dashboard appearance for the administrator account



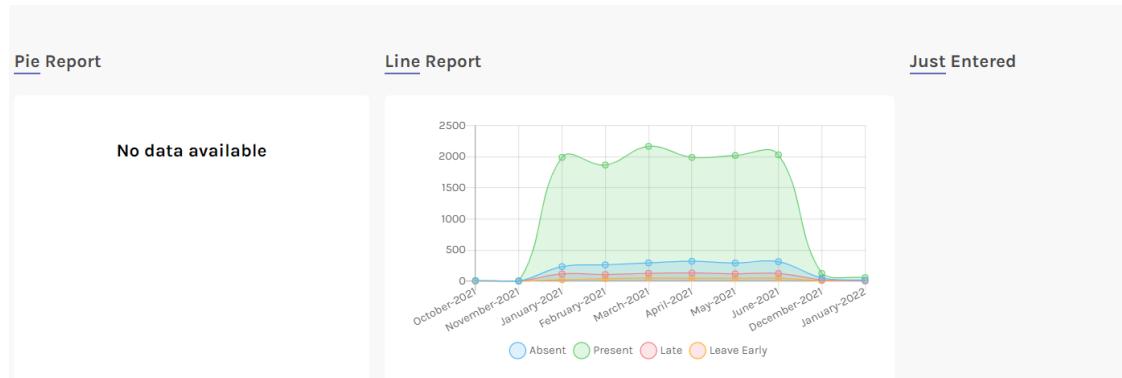
The dashboard appearance for faculty account.

The screenshot shows the 'Attendance Monitoring' application interface. On the left, a sidebar titled 'ATTENDANCE MONITORING' contains links for 'Home', 'Schedule', 'Attendance Report', and 'Reported'. Below this is a logo for 'ATTENDANCE MONITORING SYSTEM' featuring two people at a computer. The main area is titled 'Dashboard' and features a profile card for 'Pedro, Alonso Guidance'. It displays four key statistics: 'Total Students' (106), 'Total number of present' (0), 'Total number of absent' (0), and 'Total number of lates' (0). At the bottom of the dashboard are three buttons: 'Pie Report', 'Line Report', and 'Just Entered'.

The dashboard appearance for the guidance account

### Pie and Line chart, Just Entered

Scrolling down the dashboard, is the pie and line report, and the just entered. The pie report shows the percentage of students who are present, absent, arrive late late, and leave early. The line report shows the number of students who are present, absent, arrive late, and leave early per semester. The just entered shows the users who tap in into the system.



## Schedule

Administrator and Guidance account can view the schedule of a professor or student, while professors can view the schedule of the student on the subject they are handling. The schedule tab can be located on the navigation bar on the right side of the website just below the home tab. Upon selecting the schedule in the navigation bar, users will be directed to the schedule tab page.

### Select type and dat

The screenshot shows a dropdown menu titled "Select Type (Default: Faculty)". The "Student" option is highlighted with a blue background, indicating it is the selected choice.

When viewing the schedule, users must select what type of account they want to view, there are two types that the user can view, the student and the faculty. This view is for administrator and guidance account. Professors can only view the schedule of the students they are handling.

After selecting either student or faculty on the select type, users can now select the user data that they want to view.

The screenshot displays the "Schedule" page for a student. At the top, it shows the "Select Type (Default: Faculty)" dropdown set to "Student". Below it is a "Select Data" dropdown containing "(STUD1000004)Duncan,Joseph Porter". A profile picture of the student is shown next to their name, "Duncan, Joseph Porter". To the right is a "View Information" button. Below this section, there is an "Export options:" area with "Excel", "PDF", and "Print" buttons. A search bar labeled "Search:" is also present. The main content area is a table listing the student's classes:

Subject	Day	Time	Section	Room	Instructor
NM1003	Monday,Tuesday	08:18-10:18	No section assign!	B1101	Bustamante, Alexie Abaño
Ethics	Monday	08:00-11:00	No section assign!	b3101	League, Raymond N/A
History of Graphic Design	Thursday	12:00-15:00	No section assign!	B2305	Bejar, Rouse Adam E
Purposive Communication	Friday	09:00-11:00	No section assign!	B1209	Abibug, Iris Faye R

At the bottom, it says "Showing 1 to 4 of 4 entries" and has "Previous" and "Next" buttons.

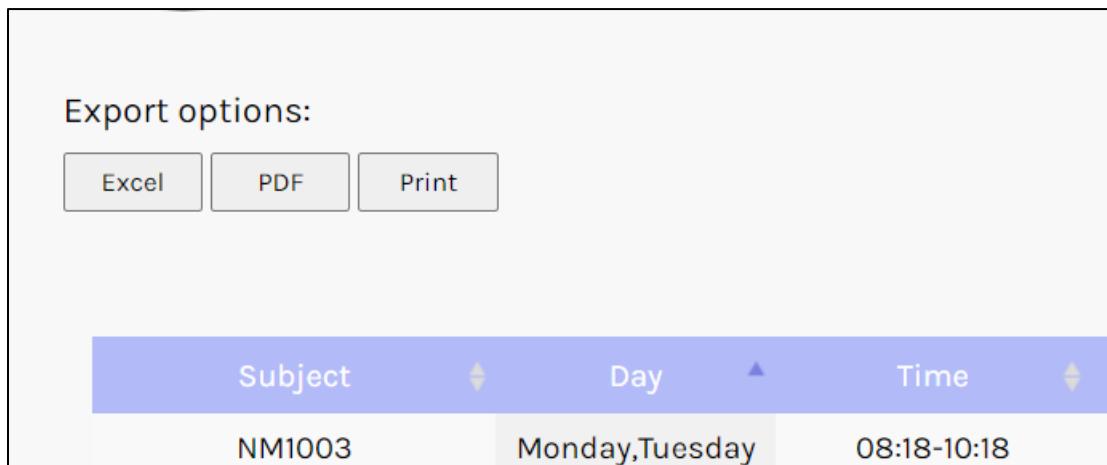
In this example, the selected type is student, and the selected data is Larry, Mitchell Reyes. Users can see the selected users picture, their name, their id,

and what type of user which in this case is a student. Users can also use the search function for searching specific data that are in the table below

## Export Options

There are three export options to choose from if the user wanted to export the data.

First is the excel. The user can export the data via excel, to do this they need to press the **Excel** button under the export options. Once they select it, the system will download the excel that contains the schedule data of the selected user.



Once the download is done, they can select it to open the excel file that contains the schedule data. The downloaded excel will show the title, day, time, department, section, location, and professor. All export options also shows the time and date of when the export has downloaded or printed.

Schedule					
Subject	Day	Time	Section	Room	Instructor
NM1003	Monday,Tuesday	08:18-10:18	No section assign!	B1101	Bustamante, Alexie Abafio
Ethics	Monday	08:00-11:00	No section assign!	b3101	League, Raymond N/A
History of Graphic Design	Thursday	12:00-15:00	No section assign!	B2305	Bejar, Rouse Adam E
Purposive Communication	Friday	09:00-11:00	No section assign!	B1209	Abibug, Iris Faye R
This Schedule is printed on Wed Jan 26 2022 08:32:29 GMT+0800 (Singapore Standard Time)					

Next option is pdf. Like the excel, users need to select the **PDF** button to download the pdf file of the schedule, then the system will download the pdf for the schedule.

Once download is done, they can select it to view the pdf file and it will open in a new tab. The pdf shows the name of the user, their id, and their user type. Below it, is the title, day, time, department, section, location, and professor.

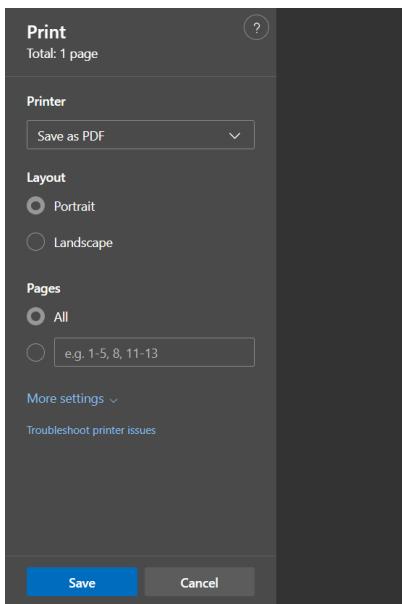
### Schedule

Student ID : STUD1000004  
Name: Duncan , Joseph Porter

Subject	Day	Time	Section	Room	Instructor
NM1003	Monday,Tuesday	08:18-10:18	No section assign!	B1101	Bustamante, Alexie Abaño
Ethics	Monday	08:00-11:00	No section assign!	b3101	League, Raymond N/A
History of Graphic Design	Thursday	12:00-15:00	No section assign!	B2305	Bejar, Rouse Adam E
Purposive Communication	Friday	09:00-11:00	No section assign!	B1209	Abibuag, Iris Faye R

This Schedule is printed on Wed Jan 26 2022 08:32:42 GMT+0800 (Singapore Standard Time)  
Printed By: Mitch Seranno

Third option is the print. Like the other two, user need to select the **Print** button. After selecting the button, it will take them to a new tab where they will see this. The print contains the current date and time they press the button, and like the pdf, shows the user information, and the schedule. It also shows the option for printing, like destination, pages, copies, layout, and color.



**Schedule**

Student ID : STUD1000004  
Name: Duncan , Joseph Porter

Subject	Day	Time	Section	Room	Instructor
NM1003	Monday,Tuesday	08:18-10:18	No section assign!	B1101	Bustamante, Alexie Abaño
Ethics	Monday	08:00-11:00	No section assign!	b3101	League, Raymond N/A
History of Graphic Design	Thursday	12:00-15:00	No section assign!	B2305	Bejar, Rouse Adam E
Purposive Communication	Friday	09:00-11:00	No section assign!	B1209	Abibuag, Iris Faye R

This Schedule is printed on Wed Jan 26 2022 08:37:18 GMT+0800 (Singapore Standard Time)  
Printed By: Mitch Seranno

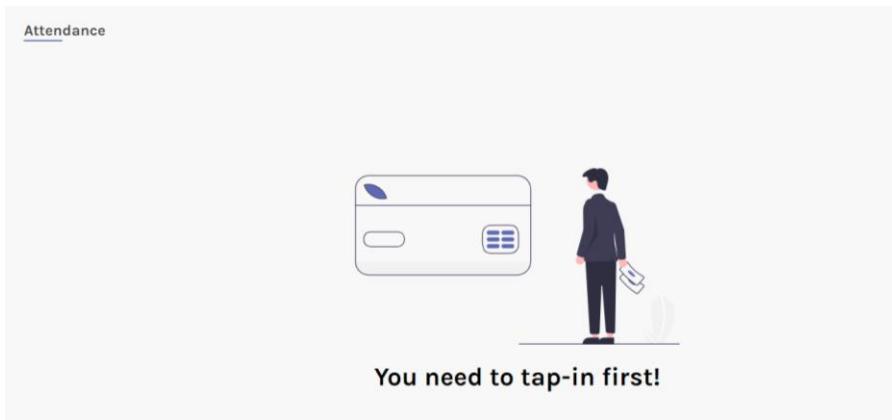
Under those printing option, the user can also go to more option to see other option they can use before printing.

## Attendance

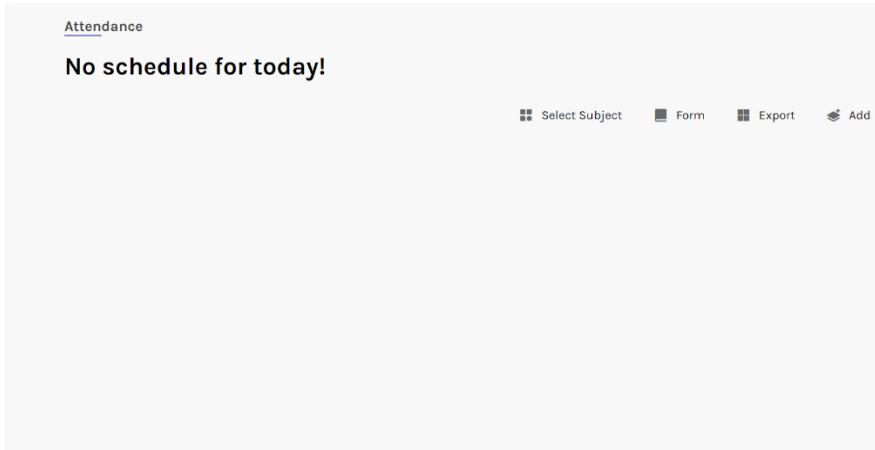
Attendance is below the schedule tab in the navigation bar on the right side of the site. Attendance can be taken by the professors in their time and they cannot take attendance if they haven't tap-in yet, only the administrator can give the permission to a user to require tap-in before taking attendance or not.

### Attendance Taking

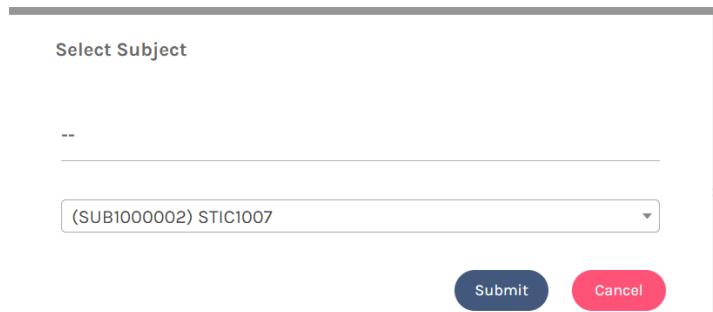
Status of a student will be determined by their attendance in class and the professor will set their status accordingly. If the student is in class he/she is present, if the student is not on his/her class he/she is absent, if the student is not on his/her class yet he/she is late. If the student is late/absent and has a valid reason and told the professor about it, a remark will be put alongside their status. The status with a remark will be ignored by the system and will not count towards their attendance.



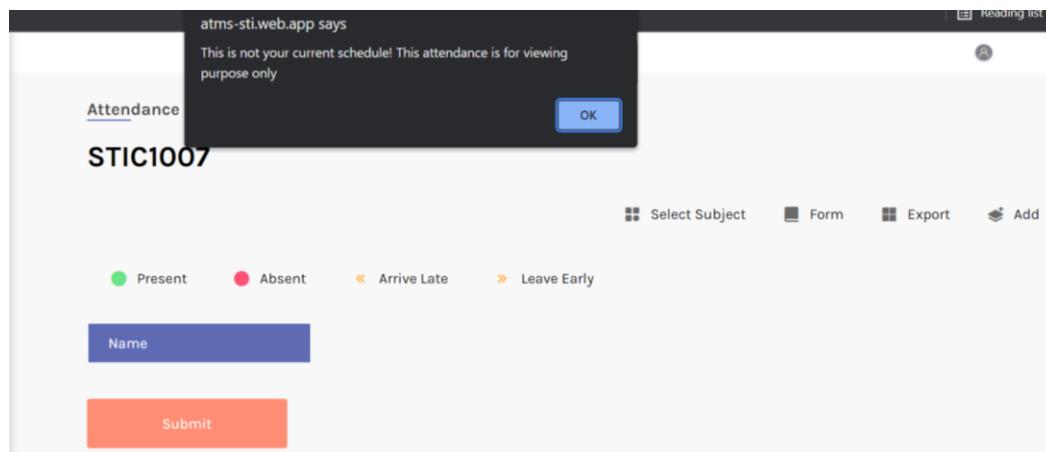
Professors cannot take attendance if they haven't tap-in first. Once the professor has tap-in into the system, they can now access the attendance tab.



Next is selecting the subject to take attendance. Select the **Select Subject** text, then select the subject to take attendance on, then after selecting the subject, select the **Submit** button.



If the selected subject is not on schedule, this pop up will appear. Professors cannot take attendance on a subject if the subject is not on its schedule. The attendance can only be viewed. Select **OK** to proceed.



This is what the attendance will look like. There are legends on top of the table to determine on what symbol is presented on the table.

Select Subject Form Export

Present Absent Arrive Late Leave Early

Name	11/25/2021	11/24/2021
Duncan, Joseph Porter	Absent	Absent
Greene, Paul Bleu	Absent	Absent
Larry, Mitchell Reyes	Present	Absent
Lee, Eric Choi	Absent	Absent
Quinn, Jason Ledwaba	Absent	Absent
Saga, Alexander Pelin	Present	Absent
Serrano, Mitch Almarinez	Absent	Absent
Walsh, Diane Alabas	Absent	Absent
Wanda, May Roberts	Absent	Absent
Wilson, Leonard Wallace	Absent	Absent

If the selected subject is on time, the professors can now add an attendance.

Select Subject Form Export Add

Present Absent Arrive Late Leave Early

Name	11/25/2021	11/24/2021
Larry, Mitchell Reyes	Present	Absent
Saga, Alexander Pelin	Present	Absent
Serrano, Mitch Almarinez	Absent	Absent
Duncan, Joseph Porter	Absent	Absent
Quinn, Jason Ledwaba	Absent	Absent
Walsh, Diane Alabas	Absent	Absent
Wilson, Leonard Wallace	Absent	Absent
Lee, Eric Choi	Absent	Absent
Greene, Paul Bleu	Absent	Absent
Wanda, May Roberts	Absent	Absent

To add an attendance, select the **Add** text next to the **Export** text.

Attendance Table:

Name	01/27/2022	11/25/2021	11/24/2021
Larry, Mitchell Reyes	Present	Present	Absent
Saga, Alexander Pelin	Present	Present	Absent
Serrano, Mitch Almarinez	Present	Absent	Absent
Duncan, Joseph Porter	Present	Absent	Absent
Quinn, Jason Ledwaba	Present	Absent	Absent
Walsh, Diane Alabas	Present	Absent	Absent
Wilson, Leonard Wallace	Present	Absent	Absent
Lee, Eric Choi	Present	Absent	Absent
Greene, Paul Bleu	Present	Absent	Absent
Wanda, May Roberts	Present	Absent	Absent

Upon selecting the add, a table will show for getting attendance, it shows the current date on when the attendance is being taken, the professors can change the date if needed.

Manage Attendance

Date : January 27, 2022

Mark all as

Select Status

Remove Attendance

Submit Cancel

When selecting the three (3) horizontal dots on the table it will show the Manage Attendance. In Manage Attendance, it shows the date, and below is the Mark all as. The Mark all as is for setting up status to every student, selecting the **Select Status** will show a dropdown to select which status to mark all students

Manage Attendance

Date : January 27, 2022

Mark all as

Select Status

- Select Status
- Present
- Absent
- Arrive Late
- Leave Early

Submit Cancel

When taking attendance, professors can select those icons presented in the table to change a student attendance status. They can set it as absent, arrive late, or leave early.

Name	01/27/2022	11/25/2021	11/24/2021
Larry, Mitchell Reyes	« Late	Present	Absent
Saga, Alexander Pelin	» Left Early	Present	Absent
Serrano, Mitch Almarinez	Present	Absent	Absent
Duncan, Joseph Porter	Present	Absent	Absent
Quinn, Jason Ledwaba	Present	Absent	Absent
Walsh, Diane Alabas	Present	Absent	Absent
Wilson, Leonard Wallace	Present	Absent	Absent
Lee, Eric Choi	Present	Absent	Absent
Greene, Paul Bleu	Present	Absent	Absent
Wanda, May Roberts	Present	Absent	Absent

Professors can also set remarks for a student. To set a remark just select the icon left of the status icons. Professors can Add/View a students remarks. The remarks shows the name of the student, their id, and a checkbox if the student is excused.

Add/View Remarks

Name	Quinn, Jason Ledwaba
ID	STUD1000005
Excused	<input checked="" type="checkbox"/>
Enter Remarks	
	<b>Save</b> <b>Cancel</b>

Upon selecting on, the remarks for the student will be [Excused], professors can change the text if needed be. The excused student status will not count towards their attendance. After they added the remarks, they can now save it by selecting the **Save** button.

Add/View Remarks

Name	Quinn, Jason Ledwaba
ID	STUD1000005
<input checked="" type="checkbox"/> Excused	[Excused]

**Save**    **Cancel**

After the professors are done taking attendance, they can now submit the attendance using the **Submit** button at the bottom of the site.

atms-sti.web.app says  
Attendance Save Sucessfully!

OK

Name	Left Early	Present	Absent
Larry, Mitchell Rey			
Saga, Alexander Pelin	» Left Early	Present	Absent
Serrano, Mitch Almarinez	Present	Absent	Absent
Duncan, Joseph Porter	Present	Absent	Absent
Quinn, Jason Ledwaba	Present	Absent	Absent
Walsh, Diane Alabas	Present	Absent	Absent
Wilson, Leonard Wallace	Present	Absent	Absent
Lee, Eric Choi	Present	Absent	Absent
Greene, Paul Bleu	Present	Absent	Absent
Wanda, May Roberts	Present	Absent	Absent

**Submit**

After they submitted the attendance, this popup will appear, select **OK** to proceed.

## Form and Export

Form and export are located on the bottom left of the subject and next to the select subject. Both can be downloaded after taking an attendance.

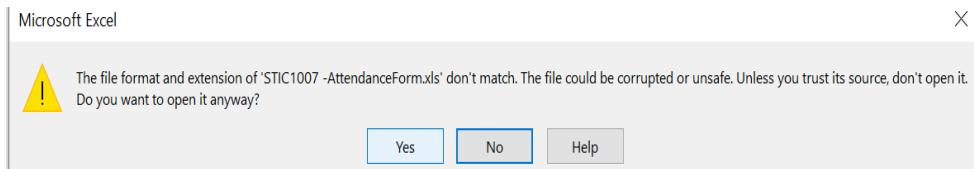
Attendance

STIC1007

Select Subject   Form   Export

Form is if a professor wants to take a manual attendance, they can download the form. The form consist of the name of the students, and the professor can

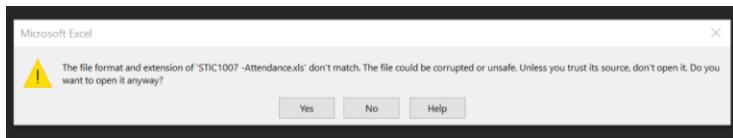
manually do manual attendance on the excel file. All they need to do is select on **Form**, then the form will download on their device.



A pop-up will appear, select **Yes** to proceed. After selecting yes, the form will appear.

	A	B	C	D	E
1	Name				
2	Duncan, Joseph Porter				
3	Greene, Paul Bleu				
4	Larry, Mitchell Reyes				
5	Lee, Eric Choi				
6	Quinn, Jason Ledwaba				
7	Saga, Alexander Pelin				
8	Serrano, Mitch Almarinez				
9	Walsh, Diane Alabas				
10	Wanda, May Roberts				
11	Wilson, Leonard Wallace				
12	Name				

Next is the export. Export is located next to form. Export is if a professor wanted to export the attendance data and download it. Like the form, to download it, select **Export**.



Another pop-up will appear, select **Yes** to proceed.

A	B	C	D
Name	11/25/2021	11/24/2021	1/27/2022
Duncan, Joseph Porter	Absent	Absent	Present
Greene, Paul Bleu	Absent	Absent	Present
Larry, Mitchell Reyes	Present	Absent	Late
Lee, Eric Choi	Absent	Absent	Present
Quinn, Jason Ledwaba	Absent	Absent	Present
Saga, Alexander Pelin	Present	Absent	Left Early
Serrano, Mitch Almarinez	Absent	Absent	Present
Walsh, Diane Alabas	Absent	Absent	Present
Wanda, May Roberts	Absent	Absent	Present
Wilson, Leonard Wallace	Absent	Absent	Present
Name	11/25/2021	11/24/2021	1/27/2022

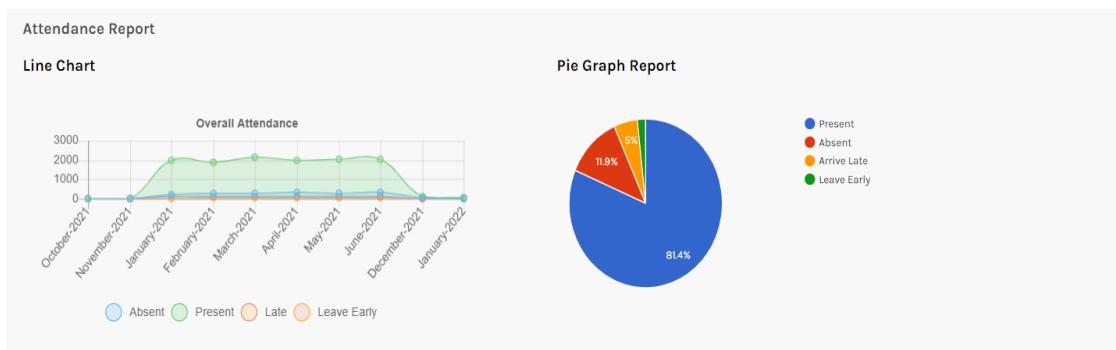
After selecting, the data of the attendance has now been exported from the site the professors device.

## Attendance Report

The attendance report tab is just below the attendance tab in the navigation bar on the right side of the site. Users can select on it to go to the attendance report tab page.

### Chart

In the attendance report tab, users can see the line chart which contains the overall attendance and shows the overall number of students who are absent, present, late, and leave early. The pie chart which contains the percentage on how many students in total, how many are present, absent, arrive late, and leave early. In both administrator and the guidance, the table shown below can be seen by both. The faculty attendance report will show the overall and percentage for the students they're handling.



### Export and Attendance Report

Just below the charts are the export and the attendance report. The export is similar to the export for the schedule, the difference is for the schedule it will export data from a users schedule, for the attendance report it will take their attendance data report.

Export to: Excel PDF Print Search:

	ID	Student ID	Name	Days Present	Days Absent	Days Late
	STUD1000001	No ID assign	Larry, Mitchell Reyes	44	14	5
	STUD1000002	No ID assign	Saga, Alexander Pelin	117	57	17
	STUD1000003	No ID assign	Serrano, Mitch Almarinez	85	10	7
	STUD1000004	No ID assign	Duncan, Joseph Porter	67	5	5
	STUD1000005	No ID assign	Quinn, Jason Ledwaba	136	12	9
	STUD1000006	No ID assign	Walsh, Diane Alabas	103	17	6
	STUD1000007	No ID assign	Wilson, Leonard Wallace	46	5	1
	STUD1000008	No ID assign	Lee, Eric Choi	47	13	9
	STUD1000009	No ID assign	Greene, Paul Bleu	122	14	13
	STUD1000010	No ID assign	Wanda, May Roberts	122	4	2

Showing 1 to 10 of 106 entries Previous 1 2 3 4 5 ... 11 Next

And just like the schedule, to export the attendance, they need to select the **Excel** button. Once done, the system will download the excel for the attendance.

ATTENDANCE MONITORING

Export to: Excel PDF Print Search:

	ID	Student ID	Name	Days Present	Days Absent	Days Late
	STUD1000001	No ID assign	Larry, Mitchell Reyes	44	14	5
	STUD1000002	No ID assign	Saga, Alexander Pelin	117	57	17
	STUD1000003	No ID assign	Serrano, Mitch Almarinez	85	10	7
	STUD1000004	No ID assign	Duncan, Joseph Porter	67	5	5
	STUD1000005	No ID assign	Quinn, Jason Ledwaba	136	12	9
	STUD1000006	No ID assign	Walsh, Diane Alabas	103	17	6
	STUD1000007	No ID assign	Wilson, Leonard Wallace	46	5	1
	STUD1000008	No ID assign	Lee, Eric Choi	47	13	9
	STUD1000009	No ID assign	Greene, Paul Bleu	122	14	13
	STUD1000010	No ID assign	Wanda, May Roberts	122	4	2

Attendance Report....xlsx Show all X

And after downloading the excel, select on the bottom on where the downloaded excel is. After selecting the downloaded excel, it will show on the top is the Attendance Report – ATMS, and below it is the student id, name, days present, absent, and late of the student.

	A	B	C	D	E	F	G
1	Student ID	Name	Attendance Report- ATMS	Days Present	Days Absent	Days Late	
2	No ID assign	Larry, Mitchell Reyes		44	14	5	
3	No ID assign	Saga, Alexander Pelin		117	57	17	
4	No ID assign	Serrano, Mitch Almarinez		85	10	7	
5	No ID assign	Duncan, Joseph Porter		67	5	5	
6	No ID assign	Quinn, Jason Ledwaba		136	12	9	
7	No ID assign	Walsh, Diane Alabas		103	17	6	
8	No ID assign	Wilson, Leonard Wallace		46	5	1	
9	No ID assign	Lee, Eric Choi		47	13	9	
10	No ID assign	Greene, Paul Bleu		122	14	13	
11	No ID assign	Wanda, May Roberts		122	4	2	
12	No ID assign	Wright, Phil Williams		212	12	6	
13	No ID assign	Wilson, Lauren Dimas		83	21	19	
14	No ID assign	Peake, Wendy Allanson		97	11	13	
15	No ID assign	Allison, Alan Cordova		54	14	7	
16	No ID assign	Slater, Irene Alcantara		73	1	3	
17	No ID assign	Paige, Charles		171	20	10	
18	No ID assign	Mathis, Molly Quinn		54	12	10	
19	No ID assign	Dickens, Alexandra Yldeso		30	10	5	
20	No ID assign	Bailey, Yvonne Tyler		110	20	17	
21	No ID assign	Pullman, Diana Humpton		131	27	16	
22	No ID assign	Quinn, Maria Strongman		96	10	12	
23	No ID assign	Miller, Nicola Tesla		53	10	12	
24	No ID assign	Bower, Sara Morty.		94	18	11	
25	No ID assign						

Second option is the pdf. Select the **PDF** button to download the pdf file for the attendance report.

ATTENDANCE MONITORING
Export to: **PDF**
Print
Search:

ID	Student ID	Name	Days Present	Days Absent	Days Late
STUD1000001	No ID assign	Larry, Mitchell Reyes	44	14	5
STUD1000002	No ID assign	Saga, Alexander Pelin	117	57	17
STUD1000003	No ID assign	Serrano, Mitch Almarinez	85	10	7
STUD1000004	No ID assign	Duncan, Joseph Porter	67	5	5
STUD1000005	No ID assign	Quinn, Jason Ledwaba	136	12	9
STUD1000006	No ID assign	Walsh, Diane Alabas	103	17	6
STUD1000007	No ID assign	Wilson, Leonard Wallace	46	5	1
STUD1000008	No ID assign	Lee, Eric Choi	47	13	9
STUD1000009	No ID assign	Greene, Paul Bleu	122	14	13
STUD1000010	No ID assign	Wanda, May Roberts	122	4	2

Attendance Report...pdf
Show all
X

After selecting the download pdf, it will download the pdf file for the attendance report, select the bottom on where the downloaded pdf is located. Then it will open on a new tab to view the pdf. The pdf, just like excel, contains the attendance report, and below is the id, student id, name, days present, absent, and late of the students.

Attendance Report- ATMS

ID	Student ID	Name	Days Present	Days Absent	Days Late
STUD1000001	No ID assign	Larry, Mitchell Reyes	44	14	5
STUD1000002	No ID assign	Saga, Alexander Pelin	117	57	17
STUD1000003	No ID assign	Serrano, Mitch Almarinez	85	10	7
STUD1000004	No ID assign	Duncan, Joseph Porter	67	5	5
STUD1000005	No ID assign	Quinn, Jason Ledwaba	136	12	9
STUD1000006	No ID assign	Walsh, Diane Alabas	103	17	6
STUD1000007	No ID assign	Wilson, Leonard Wallace	46	5	1
STUD1000008	No ID assign	Lee, Eric Choi	47	13	9
STUD1000009	No ID assign	Greene, Paul Bleu	122	14	13
STUD1000010	No ID assign	Wanda, May Roberts	122	4	2
STUD1000011	No ID assign	Wright, Phil Williams	212	12	6
STUD1000012	No ID assign	Wilson, Lauren Dimas	83	21	19
STUD1000013	No ID assign	Peake, Wendy Allanson	97	11	13
STUD1000014	No ID assign	Alison, Alan Cordova	54	14	7
STUD1000015	No ID assign	Slater, Irene Alcantara	73	1	3
STUD1000016	No ID assign	Paige, Charles	171	20	10
STUD1000017	No ID assign	Mathis, Molly Quinn	54	12	10
STUD1000018	No ID assign	Dickens, Alexandra Yideso	30	10	5
STUD1000019	No ID assign	Bailey, Yvonne Tyler	110	20	17
STUD1000020	No ID assign	Pullman, Diana Hampton	131	27	16
STUD1000021	No ID assign	Quinn, Maria Strongman	96	10	12
STUD1000022	No ID assign	Miller, Nicola Tesla	53	10	12

Third option is the print option. Select the **Print** button to print the attendance report. After selecting it, it will open on a new tab. In here, users will see the time and date the print was taken, then the student attendance, and the option for printing. Selecting more setting will reveal additional settings for printing.

Attendance Report- ATMS

Student ID	Name	Days Present	Days Absent	Days Late
No ID assign	Larry, Mitchell Reyes	44	14	5
No ID assign	Saga, Alexander Pelin	117	57	17
No ID assign	Serrano, Mitch Almarinez	85	10	7
No ID assign	Duncan, Joseph Porter	67	5	5
No ID assign	Quinn, Jason Ledwaba	136	12	9
No ID assign	Walsh, Diane Alabas	103	17	6
No ID assign	Wilson, Leonard Wallace	46	5	1
No ID assign	Lee, Eric Choi	47	13	9
No ID assign	Greene, Paul Bleu	122	14	13
No ID assign	Wanda, May Roberts	122	4	2
No ID assign	Wright, Phil Williams	212	12	6
No ID assign	Wilson, Lauren Dimas	83	21	19
No ID assign	Peake, Wendy Allanson	97	11	13
No ID assign	Alison, Alan Cordova	54	14	7
No ID assign	Slater, Irene Alcantara	73	1	3
No ID assign	Paige, Charles	171	20	10
No ID assign	Mathis, Molly Quinn	54	12	10
No ID assign	Dickens, Alexandra Yideso	30	10	5
No ID assign	Bailey, Yvonne Tyler	110	20	17
No ID assign	Pullman, Diana Hampton	131	27	16
No ID assign	Quinn, Maria Strongman	96	10	12
No ID assign	Miller, Nicola Tesla	53	10	12
No ID assign	Bower, Sara Morty	94	18	11
No ID assign	Bower, Mary Morty	138	24	15
No ID assign	Berry, Theresa Almarinez	73	17	11

Print      5 sheets of paper

Destination: EPSON L3110 Series

Pages: All

Copies: 1

Layout: Portrait

Color: Color

More settings

Paper size: Letter

Pages per sheet: 1

Print      Cancel

Below the export is the attendance report that contains the student picture, their id, name, days present, absent, and late. The attendance report also shows the number of entries below the table, users can use the search function in the top left corner above the table to search a specific student or data inside the table.

	ID	Student ID	Name	Days Present	Days Absent	Days Late
	STUD1000001	No ID assign	Larry, Mitchell Reyes	44	14	5
	STUD1000002	No ID assign	Saga, Alexander Pelin	117	57	17
	STUD1000003	No ID assign	Serrano, Mitch Almarinez	85	10	7
	STUD1000004	No ID assign	Duncan, Joseph Porter	67	5	5
	STUD1000005	No ID assign	Quinn, Jason Ledwaba	136	12	9
	STUD1000006	No ID assign	Walsh, Diane Alabas	103	17	6
	STUD1000007	No ID assign	Wilson, Leonard Wallace	46	5	1
	STUD1000008	No ID assign	Lee, Eric Choi	47	13	9
	STUD1000009	No ID assign	Greene, Paul Bleu	122	14	13
	STUD1000010	No ID assign	Wanda, May Roberts	122	4	2

Showing 1 to 10 of 106 entries

Previous 1 2 3 4 5 ... 11 Next

Selecting the picture of a student in the table will direct the users to their student information. Student information contains their id, the student id for the tap-in, their name, department, address, contact number, and email. And if the professor or the administrator wanted to report a student, they can do so via the **Report** button.

Student Information



**ID :** STUD1000004  
**Student ID :** No ID assign  
**Student Name :** Duncan, Joseph Porter  
**Department :** --  
**Address :** 232 Rizal blvd. Tagapo, Santa Rosa, Laguna  
**Contact Number :** 0963436231  
**Email :** joseph.duncan@sti.edu.ph
 
Report

---

**Overall Status**

Total Present: 67

Below their information is their overall status. Overall status contains the students total present, absent, late, and leave early. Below the overall status is the student attendance and the report status if the student has been reported.

Overall Status	
Total Present :	67
Total Absent :	5
Total Late :	4
Total Leave Early :	4

Attendances contains the subject, the date, time, status, and remarks if the student got any, if none, it will show not applicable. The subject refers to the building they tapped-in or out. Status refers to the student status if they are in our out.

Attendances					
Subject	Date	Time	Status	Remarks	
B2 IN	January 08, 2022	07:36:20 PM	IN	Not applicable	
B2 IN	December 14, 2021	08:07:35 PM	IN	Not applicable	
B2 IN	December 15, 2021	01:10:18 PM	IN	Not applicable	
B2 IN	December 17, 2021	10:00:21 AM	IN	Not applicable	
B2 IN	December 17, 2021	10:28:04 AM	IN	Not applicable	
B2 IN	December 17, 2021	10:28:34 AM	IN	Not applicable	
B2 IN	December 17, 2021	10:29:11 AM	IN	Not applicable	
B2 IN	December 17, 2021	10:30:17 AM	IN	Not applicable	
B2 OUT	December 14, 2021	08:09:11 PM	OUT	Not applicable	
B2 OUT	December 15, 2021	01:10:54 PM	OUT	Not applicable	

Scrolling up, users will see the **Report Status** button after the **Attendances** button which is what is currently shown. Selecting the **Report Status** will show the reported status table.

Attendances		Report Status			
Reports Status					
Show 10 entries		Search:			
Report By	Reason	Report Date & Time	Status	Action Taken	Cancel Report
Lore, Lexi Rodriguez	Eating in Class	December 15 2021, 01:18:19 PM	Action Taken	eating during class	
Report By	Reason	Report Date & Time	Status	Action Taken	Cancel Report

The Reported Status table shows the reported by or who reported the student, reason, report date & time, action taken, and cancel report if the admin or the user who submitted the report wanted the reported status student be cancelled.

This view of the attendance report and the student information can be viewed by the administrator and the guidance.

## Subject

The subject tab is located below the attendance report tab. To add, edit, and remove subject, select on the subject tab, and select to whether to add, edit, or delete a subject.



### Create, Edit, and Delete subject

Creating, editing, or deleting a subject can only be done by the administrator. To add subject, select on the subject tab and select the **Add Subject**.



**Subject**

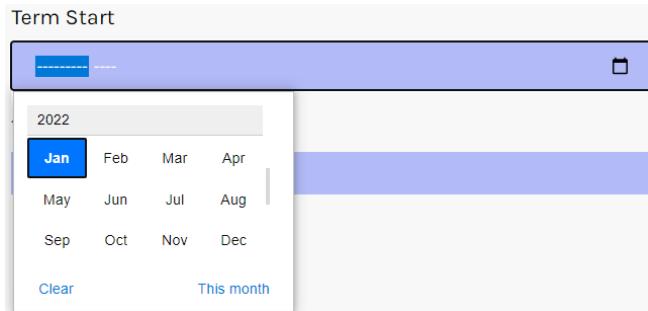
**Term Settings**

SUB1000001	
GEDC1009	
Ethics	
B3101	
(BMMA) Bachelor of Multimedia Arts	
BMMA201A	
2022-2022	BMMA201A
Second_Semester	
Subject Start Time --:-- --	
Subject End Time --:-- --	
Select days	
Select Professor	
<b>Add</b>	

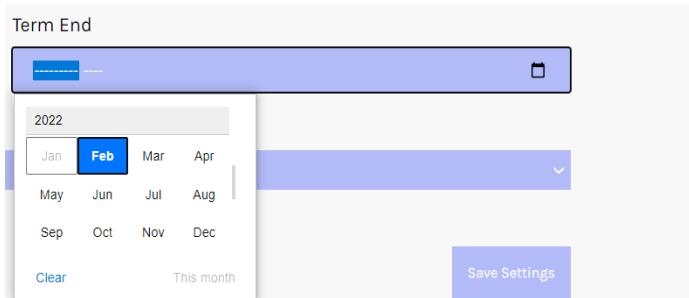
In adding a subject, the administrator needs to fill in the following fields: Class No., Subject Description, Select Location, Department, Section, which all are dropdown upon selecting will show the selection for each field. Next are the year and term, the administrator can set the term by selecting the **Term Settings** button.

The screenshot shows the 'ATTENDANCE MONITORING' system interface. On the left, there's a sidebar with icons for Home, Schedule, Attendance, Attendance Report, Subject, Class, and User Management. Below this is a logo for 'ATTENDANCE MONITORING SYSTEM' featuring two people at a computer. The main area is titled 'Term Settings'. It contains an 'Important Reminder' message: 'After a term ends, list of subjects and individual schedules and records will be archived. The system will reset and all subject data and individual schedule need to be reencoded.' There are three input fields: 'Term Start' (with a calendar icon), 'Term End' (with a calendar icon), and 'Term Description' (with a dropdown menu showing 'First Semester'). At the bottom right is a blue 'Save Settings' button.

Upon selecting the button, the administrator will be directed into the Term Settings tab. There is an important reminder that is displayed on the tab, the administrator can read it before proceeding to set the term start and end and the description.



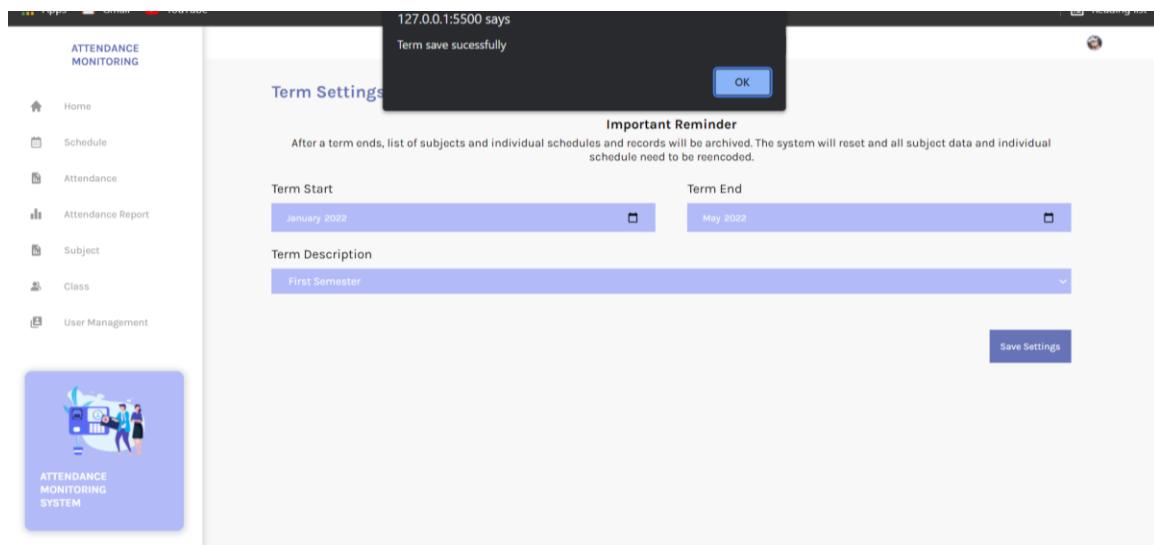
When selecting the term start, administrator needs to select the little calendar icon displayed on the left of the field. Upon selecting it, it will reveal the calendar on which to select on what date the term will start. And after selecting the term start, the administrator will now select the term end, the process is same as the term start, except term end is for the date on which the term will end.



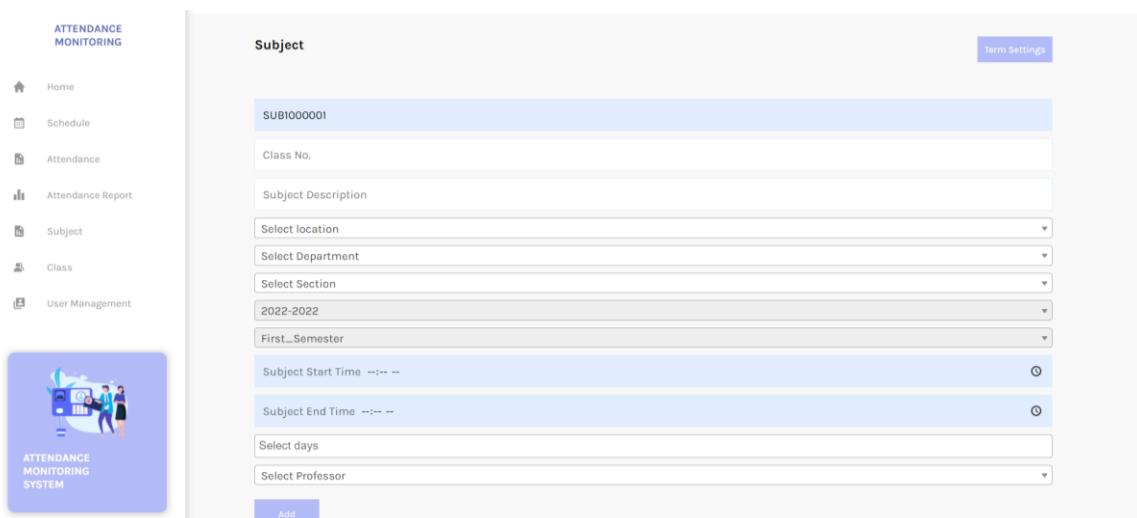
Upon selecting the date for term end, the administrator cannot select the same month for the term end for it is already selected as term start. Next is the term description. Term description is for what term will start and end. There are three term description, first is the first semester, next is the second semester, and last is the summer.



After the term has been set up, next step is to select the **Save Settings** button located just bottom left of term description. After selecting the button, the term has now been save successfully, select **OK** to proceed.



And after setting up the term, the administrator can now continue in adding the subject.



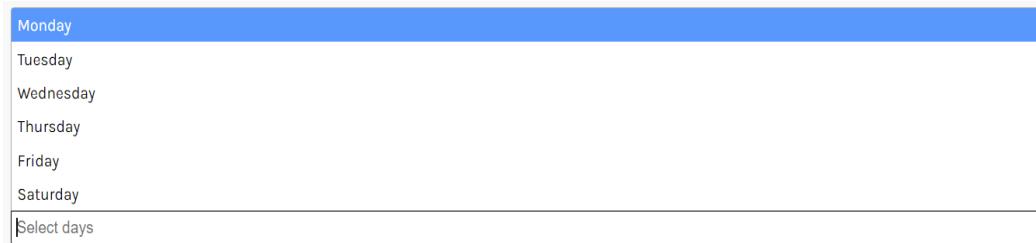
Next step is adding the subject start time and end time, this can be done by selecting the clock icon on the left of the field. Next is selecting the start and end time for the subject.

12	35	PM
01	36	AM
02	37	
03	38	Ultimedia Arts
04	39	
05	40	
06	41	

Subject Start Time 12:35 PM

Subject End Time 01:30 PM

After selecting the start and end time for the subject, the administrator can now add the day for the subject. Just select on the **Select days** field, and the administrator can now select the day for the subject.



After selecting the day for the subject, it will be displayed on the field, selecting the same day again will remove the selected day. The administrator can only select two (2) items on the field.

A screenshot of the 'Subject' creation page. On the left is a sidebar with 'ATTENDANCE MONITORING' and links for Home, Schedule, Attendance, Attendance Report, Subject, Class, User Management, and a logo for 'ATTENDANCE MONITORING SYSTEM'. The main area shows a 'Subject' form with fields for Subject ID (SUB1000001), Name (GEDC1009), and Ethics. Below these are dropdown menus for B3101, (BMMA) Bachelor of Multimedia Arts, and BMMA201A. A 'Days' section shows 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', and 'Saturday'. 'Saturday' is highlighted with a blue background. A 'Select Professor' dropdown and an 'Add' button are also present.

A screenshot of the 'Subject' creation page, similar to the previous one but with different selection. The 'Days' section shows 'Monday' and 'Tuesday' both highlighted with blue backgrounds. A message 'You can only select 2 items' is displayed above the 'Select Professor' dropdown.

Next is selecting the professor for the subject. Administrator can scroll down to see more professors to select for the subject, or they use the search bar to search for the professors id, or their name.

ATTENDANCE MONITORING

**Subject**

SUB1000001

Class No.

Subject Description

Select location

Select Department

Select Section

Select Professor

(FACUI000003) Balenciaga, Sharmaine Bautista  
(FACUI000004) Lazaga, Rostelito N/A  
(FACUI000005) Palma, Miguel Alfonso P  
(FACUI000006) Bustamante, Alexie Abaño  
(FACUI000007) Cabasag, Richard Lagumbay  
(FACUI000008) ...

Select Professor

Add

And after selecting a professor, the administrator can now add the subject by selecting the **Add** button. After selecting the button, this pop-up will appear. Select the **OK** button to continue.

ATTENDANCE MONITORING

**Subject**

127.0.0.1:5500 says  
No match! Safe to insert

OK

SUB1000001

GEDCI009

Ethics

B3101  
(BMMA) Bachelor of Multimedia Arts  
BMMA201A  
2022-2022  
First... Semester

Subject Start Time 12:35 PM

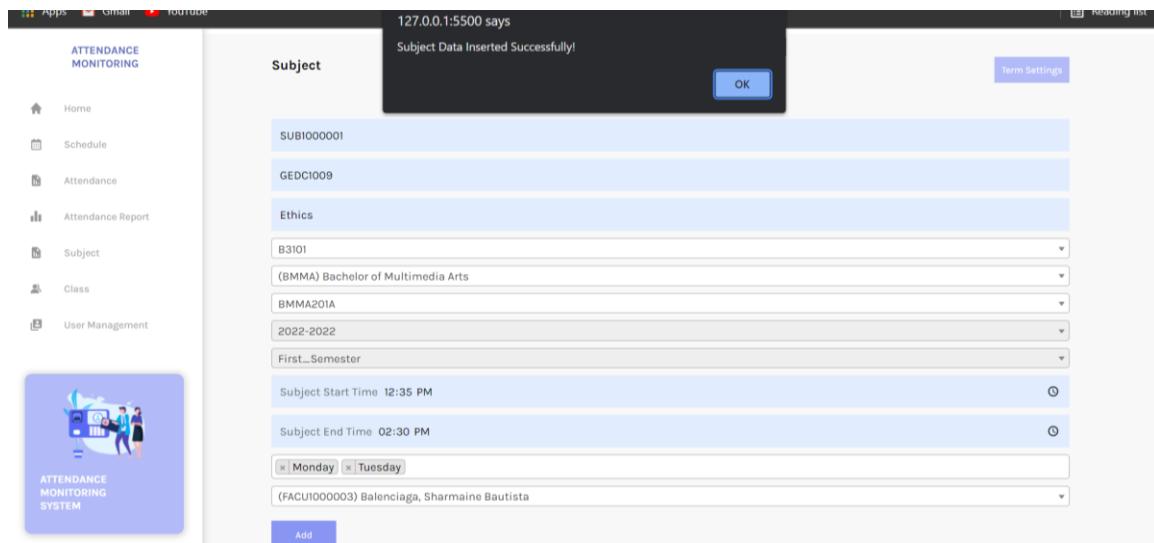
Subject End Time 02:30 PM

Monday Tuesday

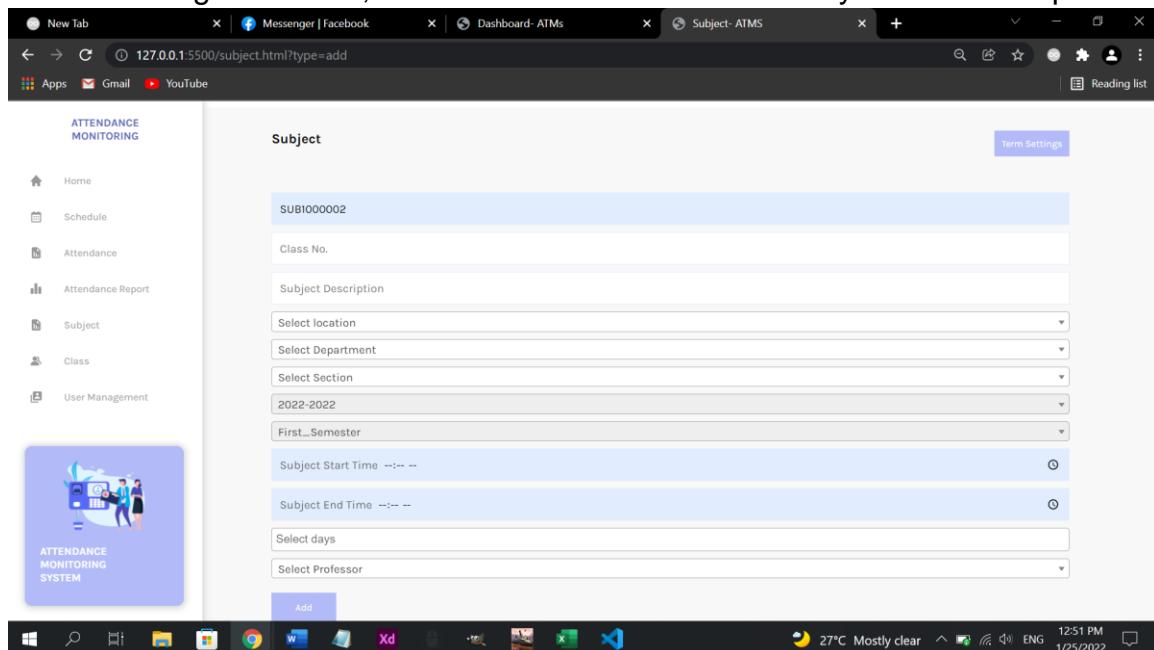
(FACUI000003) Balenciaga, Sharmaine Bautista

Add

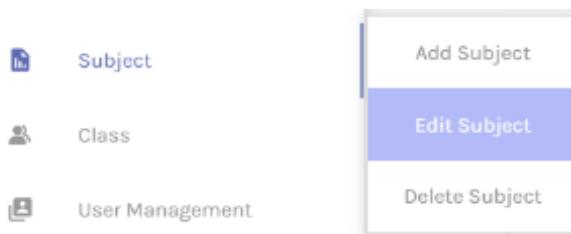
After selecting the button, another pop-up will appear, select the button to continue.



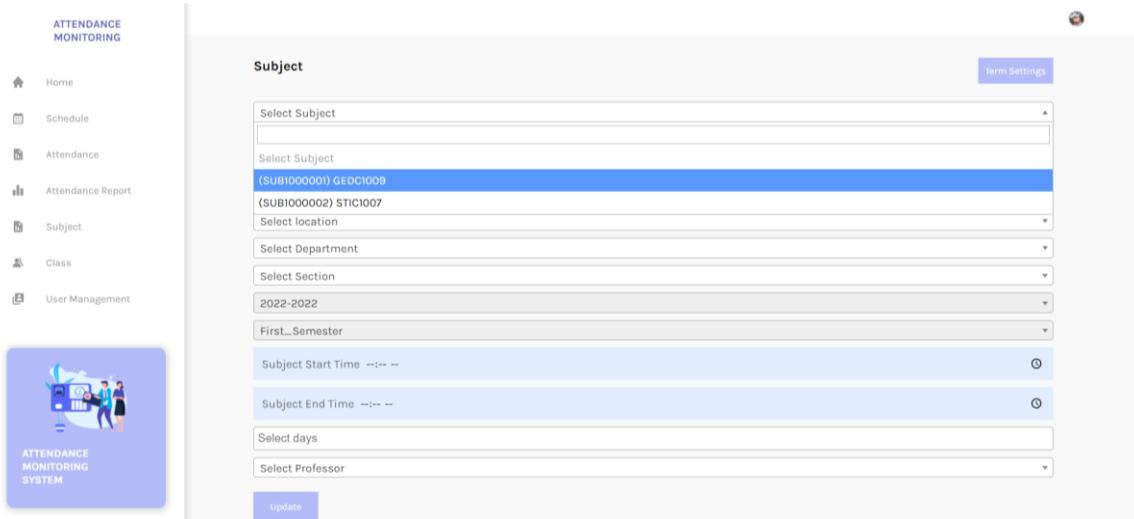
After selecting the button, the field will be cleared and ready for another input.



Next is edit subject. To edit a subject, go to subject tab in the navigation bar and select **Edit Subject**.

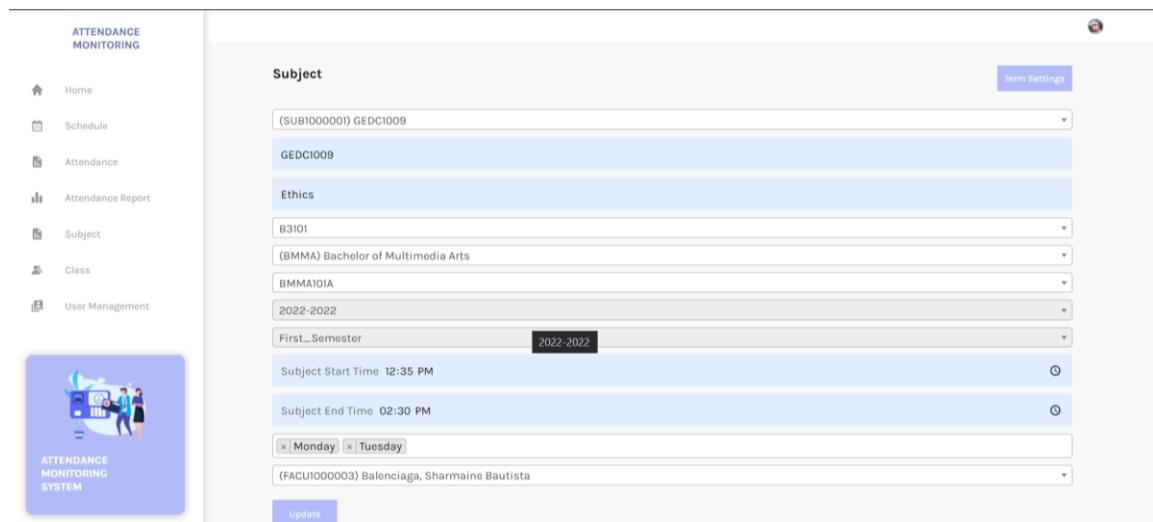


Next step after selecting the edit subject, select the **Select Subject** text field to select the subject to be edited.



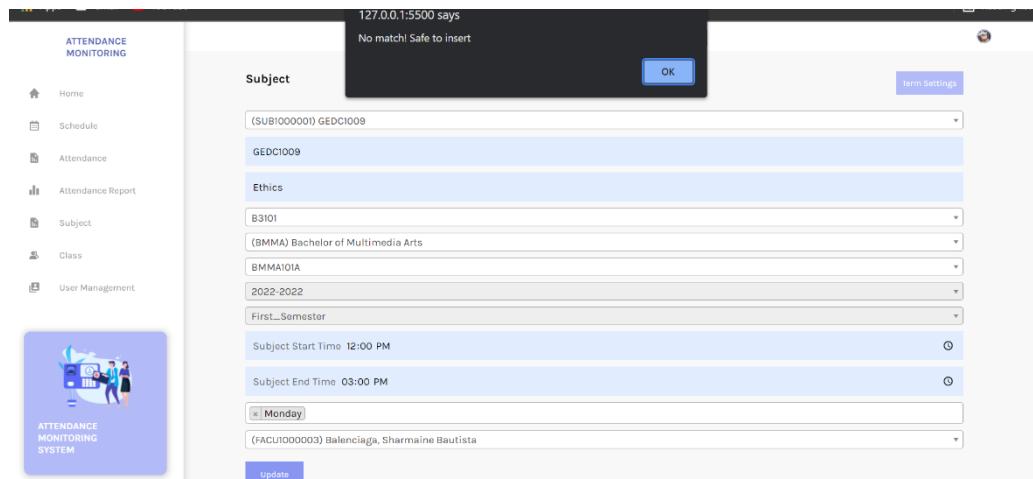
The screenshot shows the 'Subject' edit form. The 'Select Subject' dropdown is open, displaying '(SUB1000001) GEDC1009' as the selected item. Other options listed include '(SUB1000002) STIC1007' and 'Select location'. The form contains several input fields: 'Select Department' (B3101), 'Select Section' (BMMA101A), 'Year' (2022-2022), 'Semester' (First\_Semester), 'Subject Start Time' (12:00 PM), 'Subject End Time' (03:00 PM), 'Days' (Monday, Tuesday), and 'Professor' (FACU1000003 Balenciaga, Sharmaine Bautista). A blue 'Update' button is located at the bottom right of the form.

After selecting a subject, the administrator can now edit the subject that was added.



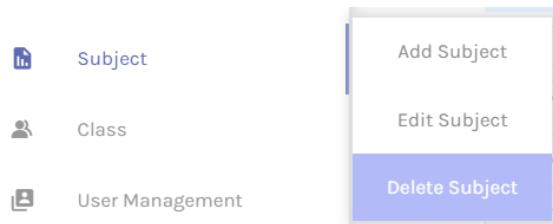
The screenshot shows the 'Subject' edit form after changes have been made. The 'Select Subject' dropdown now displays 'GEDC1009'. The 'Ethics' section has been updated to show 'B3101' and 'BMMA101A'. The '2022-2022' and 'First\_Semester' fields remain the same. The 'Subject Start Time' is now 12:35 PM, and the 'Subject End Time' is 02:30 PM. The 'Days' field now shows 'Monday' and 'Tuesday'. The 'Professor' field remains the same. A blue 'Update' button is located at the bottom right of the form.

After editing the subject, the administrator can update the changes with the **Update** button.



The screenshot shows a confirmation dialog box with the message '127.0.0.1:5500 says No match! Safe to insert' and an 'OK' button. Below the dialog is the 'Subject' edit form, which is identical to the one in the previous screenshot, showing the updated subject information. The form includes fields for 'Select Subject' (GEDC1009), 'Select Department' (B3101), 'Select Section' (BMMA101A), 'Year' (2022-2022), 'Semester' (First\_Semester), 'Subject Start Time' (12:00 PM), 'Subject End Time' (03:00 PM), 'Days' (Monday, Tuesday), and 'Professor' (FACU1000003 Balenciaga, Sharmaine Bautista). A blue 'Update' button is located at the bottom right of the form.

Select **OK** to proceed, another pop-up will appear, select **OK** to proceed.



To delete a subject, select the **Subject** and select **Delete Subject**. To delete a subject, select the **Select Subject** field to delete a subject.

This screenshot shows the 'Subject' deletion form. On the left is a sidebar with 'ATTENDANCE MONITORING' and icons for Home, Schedule, Attendance, Attendance Report, Subject, Class, and User Management. The main area has a title 'Subject' and a 'Term Settings' button. Below is a 'Select Subject' dropdown containing '(SUB10000001) GEDC1009' and '(SUB10000002) STIC1007'. Other fields include 'Select location', 'Select Department', 'Select Section', '2022-2022', 'First\_Semester', 'Subject Start Time', 'Subject End Time', 'Select days', and 'Select Professor'. A 'Delete' button is at the bottom.

After selecting the subject, the administrator can now proceed to delete the subject by selecting the **Delete** button. Select **OK** if the subject is to be deleted, and **Cancel** if the subject is to kept.

This screenshot shows a confirmation dialog box in the center of the screen with the message '127.0.0.1:5500 says Are you sure you want to delete this?' and two buttons: 'OK' and 'Cancel'. The main page behind it displays a list of subjects with their details. The sidebar on the left is identical to the one in the previous screenshot. The main content area shows a table with columns for Subject, Location, Department, Section, Start Date, End Date, Days, and Professor. One row is selected, showing 'GEDC1009' in the Subject column.

If the subject is deleted, this pop-up will show, select **OK**.

127.0.0.1:5500 says  
Subject Deleted Successfully

**Subject**

OK

Term Settings

(SUB1000001) GEDC1009

GEDC1009

Ethics

B3101

(BMMA) Bachelor of Multimedia Arts

BMMA101A

2022-2022

First\_Semester

Subject Start Time 12:00 PM

Subject End Time 03:00 PM

Monday

(FACU1000003) Balenciaga, Sharmaine Bautista

Delete

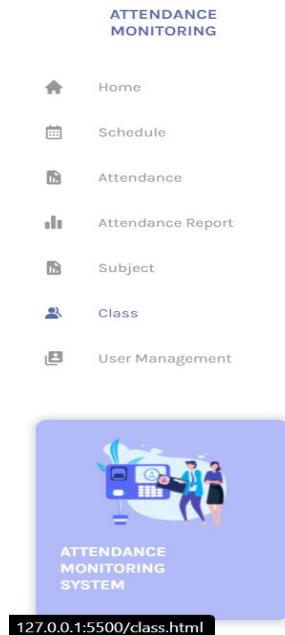
ATTENDANCE MONITORING SYSTEM

## Class

Adding student to a subject is done by the administrator. Class tab is under the Subject Tab in the navigation bar.

### Manage Class

To add student to a subject, go to class tab which is under the subject tab.



After going to the tab, the administrator can now add student to a subject. First step is to select subject in the **Select Subject** field. Select a subject.

The screenshot shows the 'Manage Class' page. On the left is a sidebar with the same navigation menu as the previous screenshot. The main area has a title 'Manage Class'. Below it is a 'Select Subject' dropdown menu. The dropdown shows two options: '(SUB10000001) GEDC1009' and '(SUB10000002) STIC1007'. The first option is currently selected and highlighted with a blue background. Below the dropdown is a table with columns 'ID Number' and 'Name'. A message 'No data available in table' is displayed above the table. At the bottom of the page, there is a 'Showing 0 to 0 of 0 entries' message, a 'Submit' button, and 'Previous' and 'Next' links.

After selecting a subject, add the students. Select the **Select Student** field to add the student into the subject.

(SUB1000002) STIC1007

Select Student

Select Student

(STUD1000001) Larry, Mitchell Reyes

(STUD1000002) Saga, Alexander Pelin

(STUD1000003) Serrano, Mitch Almarinez

(STUD1000004) Duncan, Joseph Porter

(STUD1000005) Quinn, Jason Ledwaba

Submit

The administrator can scroll down to select a student to add, or use the search bar to search for a students id or name to add into the subject.

(SUB1000002) STIC1007

Select Student

Walsh

(STUD1000006) Walsh, Diane Alabas

(STUD1000060) Bond, Rose Brooke

(STUD1000061) Buckland, Isaac Carel

(STUD1000062) Manning, Victoria Stormie

(STUD1000063) Newman, Gordon Kody

(STUD1000064) Edmunds, Pippa Nedavya

The table below shows the student added into the subject. The table contains the student picture, id number, name, and whether to remove a student from the table via the trash can icon.

ID Number	Name	
STUD1000001	Larry, Mitchell Reyes	
STUD1000002	Saga, Alexander Pelin	
STUD1000003	Serrano, Mitch Almarinez	
STUD1000004	Duncan, Joseph Porter	
STUD1000005	Quinn, Jason Ledwaba	
STUD1000006	Walsh, Diane Alabas	
STUD1000007	Wilson, Leonard Wallace	
STUD1000008	Lee, Eric Choi	
STUD1000009	Greene, Paul Bleu	
STUD1000010	Wanda, May Roberts	

After selecting the student for the subject, select the **Submit** button.

ATTENDANCE MONITORING

- Home
- Schedule
- Attendance
- Attendance Report
- Subject
- Class
- User Management

ATTENDANCE MONITORING SYSTEM

ID Number	Name	Action
STUD1000001	Larry, Mitchell Reyes	
STUD1000002	Saga, Alexander Pelin	
STUD1000003	Serrano, Mitch Almarinez	
STUD1000004	Duncan, Joseph Porter	
STUD1000005	Quinn, Jason Ledwaba	
STUD1000006	Walsh, Diane Alabas	
STUD1000007	Wilson, Leonard Wallace	
STUD1000008	Lee, Eric Choi	
STUD1000009	Greene, Paul Bleu	
STUD1000010	Wanda, May Roberts	

Showing 1 to 10 of 10 entries

Previous Next

Submit

After selecting the button, this pop-up will appear. Select the **OK** button.

ATTENDANCE MONITORING

- Home
- Schedule
- Attendance
- Attendance Report
- Subject
- Class
- User Management

ATTENDANCE MONITORING SYSTEM

ID Number	Name	Action
STUD1000003	Serrano, Mitch Almarinez	
STUD1000004	Duncan, Joseph Porter	
STUD1000005	Quinn, Jason Ledwaba	
STUD1000006	Walsh, Diane Alabas	
STUD1000007	Wilson, Leonard Wallace	
STUD1000008	Lee, Eric Choi	
STUD1000009	Greene, Paul Bleu	
STUD1000010	Wanda, May Roberts	

127.0.0.1:5500 says  
Class created successfully

OK

Showing 1 to 10 of 10 entries

Previous Next

Submit

After selecting the button, the field will be cleared for another insert.

ATTENDANCE MONITORING

- Home
- Schedule
- Attendance
- Attendance Report
- Subject
- Class
- User Management

ATTENDANCE MONITORING SYSTEM

Manage Class

Select Subject

Select Student

Show 10 entries

Search:

ID Number	Name
No data available in table	

Showing 0 to 0 of 0 entries

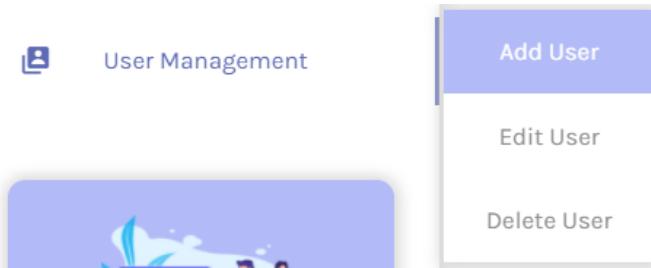
Previous Next

Submit

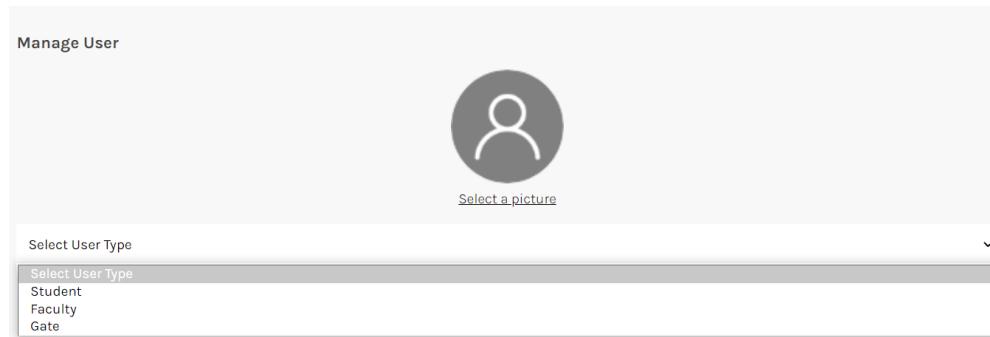
## User management

### Create, Edit, and Delete user

Creation, deletion, and editing of an account is only done by the Administrator. The Administrator is the only one who can create, delete or edit an account when needed. User management is below the class tab. To add a user, go to the **User Management** and select **Add User**.



Then after selecting the add user, select a user type by selecting the **Select User Type** dropdown, and select a user type to add.



Then add the necessary information in the field.

A screenshot of a "Manage User" page for a "Student". The page has a sidebar on the left with icons for Home, Schedule, Attendance, Attendance Report, Subject, Class, and User Management. The main area shows a placeholder for a profile picture with "Select a picture". Below it, the "Student" user type is selected. The form fields include: "STUD1000107" (highlighted in blue), "Student Number", "Card ID", "Select Department" (dropdown), "Select Section" (dropdown), "Last Name", "First Name", "Middle Name", and "Contact Number". The "STUD1000107" field is currently active, indicated by a blue highlight.

The screenshot shows the 'Attendance Monitoring' system interface. On the left, a sidebar menu lists: Home, Schedule, Attendance, Attendance Report, Subject, Class, and User Management. Below the menu is a logo for 'ATTENDANCE MONITORING SYSTEM' featuring two people at a computer. The main content area is titled 'Student Number' and contains fields for Card ID, Select Department, Select Section, Last Name, First Name, Middle Name, Contact Number, Email, and Address. A 'Save' button is at the bottom.

The picture above is for the student user type.

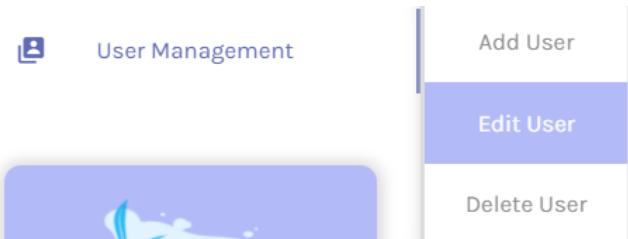
This screenshot shows the 'Manage User' section of the system. It includes a placeholder for a user profile picture with the text 'Select a picture'. Below it, a 'Faculty' dropdown is set to 'FACUI1000047'. The form fields include Faculty Number, Card ID, Select Department, Last Name, First Name, Middle Name, and Contact Number. The 'Last Name' field is highlighted in blue. The 'Setup User' section below contains fields for Email and Password, and a note about requiring tap-in before taking class attendance. A 'Save' button is at the bottom.

The picture above is for the Faculty user type.

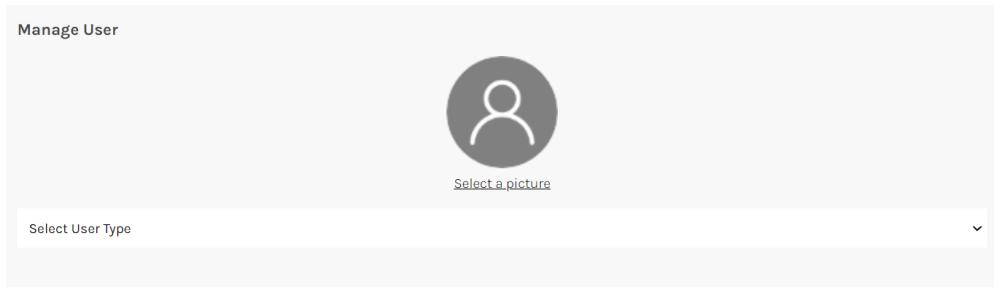


And for the faculty, there are different roles. And those roles are the Administrator, the Guidance, and the faculty. After filling up the fields, add the user by selecting the **Save** button. A pop-up will appear, select **OK** to proceed.

To edit a user, the process is almost the same as adding, except instead of selecting add user, it will be the **Edit User**.



After selecting the **Edit User**. And just like the **Add User**, select a user type to edit.



After selecting a user type to edit.

Manage User

  
[Select a picture](#)

Student

(STUD1000004) Duncan,Joseph Porter
STUD1000004
Student Number
15305e23
Duncan
Joseph

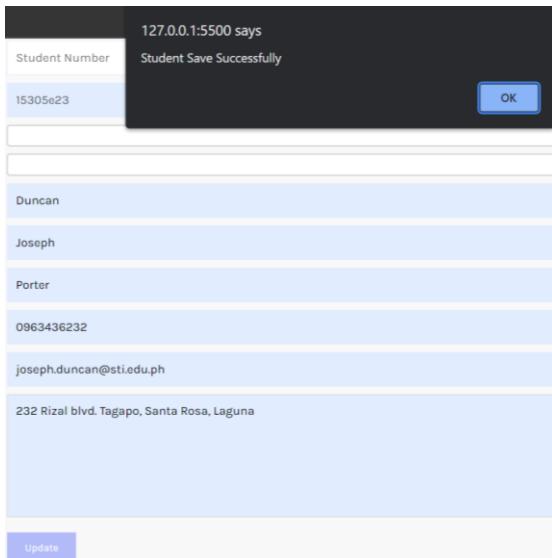
---

Student Number

15305e23
Duncan
Joseph
Porter
0963436231
joseph.duncan@sti.edu.ph
232 Rizal blvd. Tagapo, Santa Rosa, Laguna

**Update**

Select a field to change, and after making the changes, select the **Update** button.



After selecting the button, select **OK** to proceed.

Manage User

  
[Select a picture](#)

Faculty

(FACUI000004) Lazaga,Rostelito N/A

Faculty

FACUI000004

Faculty Number

Card ID

Lazaga

Rostelito

N/A

09327328328

156 Rosewood Drive, Brgy. Canlubang, Calamba City, Laguna

---Permissions---

Require Tap-in First before taking class attendance.

**Update**

Same applies to the faculty.

Manage User

  
[Select a picture](#)

Gate

(GATEI000001) B2 In

Tap In

B2

**Update**

And to the gate.

## Profile

Profile can be accessed by the dashboard when selecting the picture, or via the top left side.

The image consists of two screenshots of a dashboard interface. The top screenshot shows a user profile card for "Saga, Alexander" (Administrator). The card has a blue background and features a circular profile picture of a person wearing a cap. Below the picture, the name "Saga, Alexander" and the title "Administrator" are displayed. The bottom screenshot shows the same profile card and a menu on the right. The menu includes options such as "Profile" (which is highlighted in blue), "About", "Import", and "Logout". Below the card, there are four statistics: "Total Students" (106), "Total number of present" (0), and "Total number of absent" (0). Each statistic is accompanied by a small circular icon.

After selecting either profile, users will be redirected to the profile page.

**Profile**



**Saga, Alexander**  
PROF1000001

**View Attendance**

Account Type	Administrator
Department	No department assign
Full Name	Saga,Alexander Pelin
Address	Sinalhan
Contact Number	09126997937

**Permission**

Tap in first

The profile contains the user picture, and on the left side of the picture, and id just below the name. Below it are the information of the user. Just on the far left on the picture and name is the **View Attendance** button which will just redirect them back to the profile.

Below the information is the permission which is given by the administrator. If the user has a schedule, there will be a table just above permission. The My Class Schedule table shows the Course Description, Day, Time, and Location. And below it is the permission.

**My Class Schedule**

Search:

Course Description	Day	Time	Location
STIC1007	Thursday	15:00-16:00	B3103

Showing 1 to 1 of 1 entries

Previous **1** Next

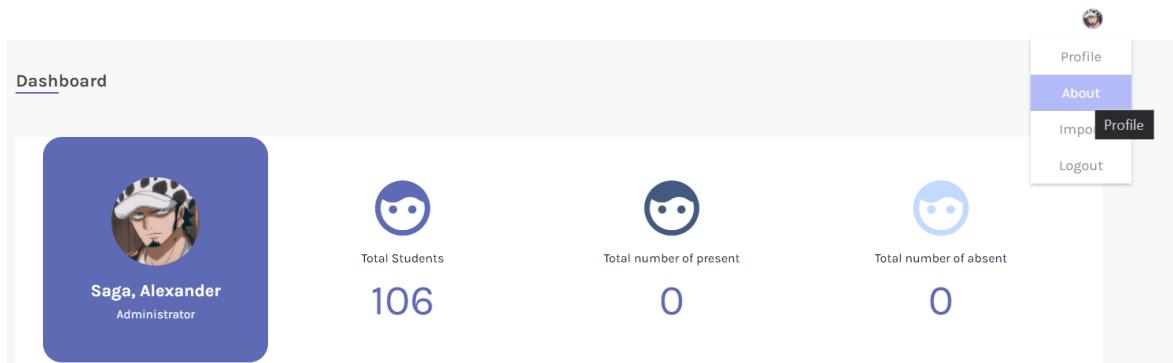
**Permission**

Tap in first

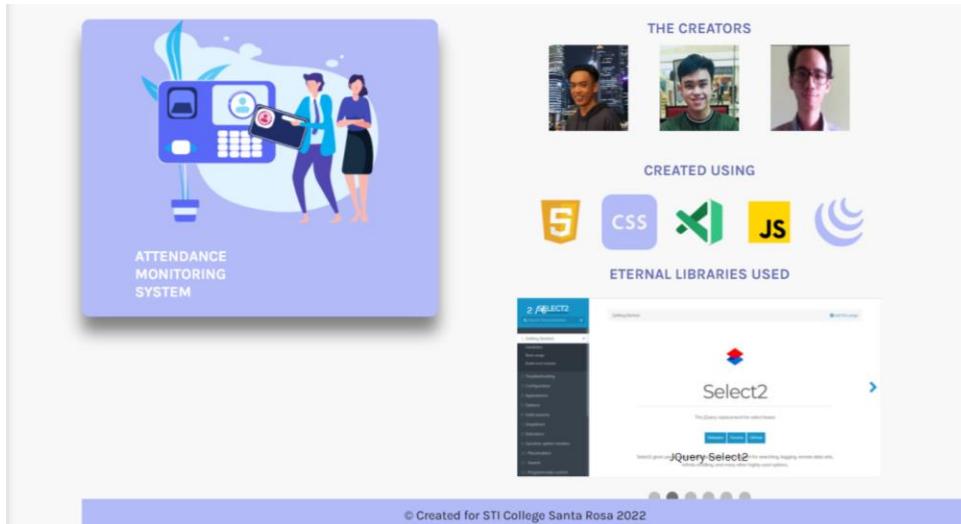
Allow Attendance

## About

The about section is located below the profile on top left corner of the site.



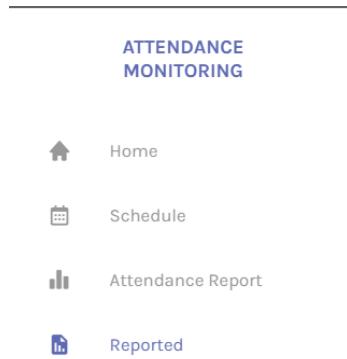
Select the **About**. Users will directed to the about page of the site.



The about page contains who created the site, the resources they used and eternal libraries that they used.

## Reported

The reported students tab can be accessed by the guidance. The reported students contain the reported student, their name, the reason why the student is reported, who reported the student, and the actions. Reported is located below the Attendance Report in the navigation bar for the Guidance.

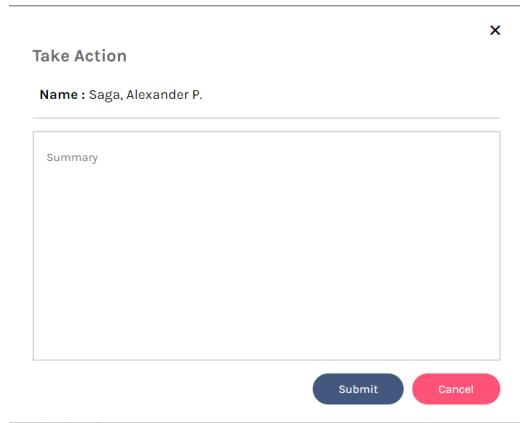


## Take Action

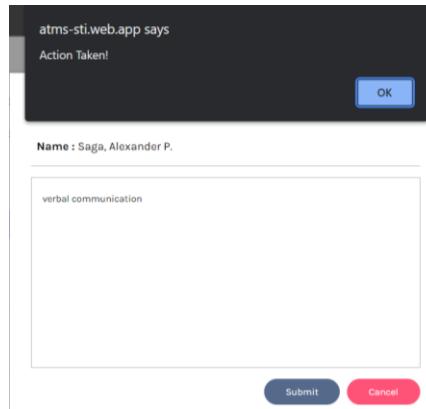
After selecting the **Reported**. The actions will be done by the guidance to whether to take action on the report or delete the report. The guidance can also move to archive the report.

Reported Students					
Showing Data from << Present Date >> - << Present Date >>					
Export to:					
	Name	Reason	Reported By	Reported Date	Actions
	Quinn, Jason Ledwaba	Cheatin in class	Seranno, Mitch Almarinez	12-21-2021, 10:11:37 AM	<button>Take Action</button> <button>Move to Archive</button>
	Larry, Mitchell Reyes	Maraming report	Lore, Lexi Rodriguez	12-15-2021, 01:24:17 PM	<button>Take Action</button> <button>Move to Archive</button>
	Mathis, Jessica Coultron	Not wearing proper uniform	Florendo, Nikki Jerome C	12-14-2021, 05:07:03 PM	<button>Take Action</button> <button>Move to Archive</button>
	Dowd, Sebastian Guevarra	Disrespectful	Junio, Enrique S	12-2-2021, 11:43:32 PM	<button>Take Action</button> <button>Move to Archive</button>
	Murray, Victoria Shani	nagpaalam na ihi pero di na bumalik.	Tan, Egmedio B	12-2-2021, 10:56:55 PM	<button>Take Action</button> <button>Move to Archive</button>

By selecting the **Take Action** button, the take action window will open. Take action shows the name of who reported it, and the summary of the action taken by the guidance.



After the action has been taken, press the **Submit** button to submit the taken action. Press **OK** to proceed.



## Archived

The archived contains the action taken, and if the guidance did not take action and moved the report to archived. The Archived shows the data from a selected date, the present date is the default date that is showing in the archived.

**Archived**

\* Showing Data from << Present Date >> - << Present Date >>

Export to: Excel PDF Print Column visibility Search:

Name	Reason	Report By	Report Date	Action	Status
Quinn, Jason Ledwaba	Cheatin in class	Seranno, Mitch Almarinez	1-25-2022, 09:33:10 PM	verbal communication	Action Taken
Saga, Alexander Pelin	Eating in class	Saga, Alexander Pelin	1-15-2022, 07:43:47 AM	--	Action Taken
Alsop, Madeleine Quintana	Always absent	Tongko, Christian Dela Cruz	1-13-2022, 02:45:20 PM	No action taken	Cancel - Move to Archive
Hudson, Sally Santiago	cutting class	Tongko, Christian Dela Cruz	1-5-2022, 12:02:39 PM	No action taken	Cancel - Move to Archive
Marshall, Kimberly Quizon	always absent, never present	Tongko, Christian Dela Cruz	1-5-2022, 12:01:47 PM	Disciplinary Sanction	Action Taken
Lambert, Jack Ricky	Eating in class	Tongko, Christian Dela Cruz	1-3-2022, 02:10:05 PM	Verbal Communication, Disciplinary Sanction	Action Taken

The Archive can be exported via excel, pdf, or print. The guidance can also select which column to show in the table and which to hide.

**Archived**

\* Showing Data from << Present Date >> - << Present Date >>

Export to: Excel PDF Print Column visibility

Column visibility dropdown menu:

- Name
- Reason
- Report By
- Report Date
- Action
- Status

Select the **Excel** button to download the data in the archive. Open the downloaded excel.

A	B	C	D	E
1			Archive - ATMS	
2	<b>Name</b>	<b>Reason</b>	<b>Report By</b>	<b>Report Date</b>
3	Quinn, Jason Ledwaba	Cheatin in class	Seranno, Mitch Almarinez	1-25-2022, 09:33:10 PM
4	Saga, Alexander Pelin	Eating in class	Saga, Alexander Pelin	1-15-2022, 07:43:47 AM
5	Alsop, Madeleine Quintana	Always absent	Tongko, Christian Dela Cruz	1-13-2022, 02:45:20 PM
6	Hudson, Sally Santiago	cutting class	Tongko, Christian Dela Cruz	1-5-2022, 12:02:39 PM
7	Marshall, Kimberly Quizon	always absent, never present	Tongko, Christian Dela Cruz	1-5-2022, 12:01:47 PM
8	Lambert, Jack Ricky	Eating in class	Tongko, Christian Dela Cruz	1-3-2022, 02:10:05 PM
9	Lee, Frank Chua	Cheating during exam	Abbuag, Iris Faye R	1-3-2022, 11:45:57 AM
10	Quinn, Jason Ledwaba	Eatin in class	Seranno, Mitch Almarinez	12-17-2021, 11:28:49 AM
11	Roberts, Keith Bailey	Using Laptop during pe	Mortera, Immanuel P	12-16-2021, 03:50:13 PM
12	Roberts, Keith Bailey	using cp during lecture	Mortera, Immanuel P	12-16-2021, 03:49:22 PM
13	Larry, Mitchell Reyes	Cutting classes	Lore, Lexi Rodriguez	12-15-2021, 01:21:29 PM
14	Duncan, Joseph Porter	Eating In Class	Lore, Lexi Rodriguez	12-15-2021, 01:18:19 PM
15	Quinn, Jason Ledwaba	Cutting classes/early out	Almazan, Cherrelyne V	12-14-2021, 05:33:13 PM
16	Russell, Dorothy Torch	sample report 2	League, Raymond N/A	12-14-2021, 05:10:00 PM
17	Quinn, Jason Ledwaba	always absent	Gamboa, Lucita N/A	12-14-2021, 05:09:47 PM
18	Bower, Mary Morty	Sample Report	League, Raymond N/A	12-14-2021, 05:09:33 PM
19	Larry, Mitchell Reyes	Report 9	Saga, Alexander Pelin	12-14-2021, 05:08:36 PM
20	Larry, Mitchell Reyes	Report 8	Saga, Alexander Pelin	12-14-2021, 05:08:28 PM
21	Saga, Alexander Pelin	Nagpapakopya	Gamboa, Lucita N/A	12-14-2021, 05:03:10 PM
22	Bell, Stewart Lane	Eating in class(2)	League, Raymond N/A	12-9-2021, 10:25:18 PM
23	Bell, Stewart Lane	Eating in class	League, Raymond N/A	12-9-2021, 10:24:04 PM
24	Larry, Mitchell Reyes	Report 5	Saga, Alexander Pelin	11-16-2021, 01:14:21 AM
25	Larrv. Mitchell Reves	Report 4	Saga, Alexander Pelin	11-15-2021, 11:48:17 PM

Same goes with PDF. Select the **PDF** button, open the downloaded pdf file.

Archive - ATMS.pdf

Archive - ATMS

Name	Reason	Report By	Report Date	Action	Status
Quinn, Jason Ledwaba	Cheatin in class	Seranno, Mitch Almarinez	1-25-2022, 09:33:10 PM	verbal communication	Action Taken
Saga, Alexander Pelin	Eating in class	Saga, Alexander Pelin	1-15-2022, 07:43:47 AM	--	Action Taken
Alsop, Madeleine Quintana	Always absent	Tongko, Christian Dela Cruz	1-13-2022, 02:45:20 PM	No action taken	Cancel - Move to Archive
Hudson, Sally Santiago	cutting class	Tongko, Christian Dela Cruz	1-5-2022, 12:02:39 PM	No action taken	Cancel - Move to Archive
Marshall, Kimberly Quizon	always absent, never present	Tongko, Christian Dela Cruz	1-5-2022, 12:01:47 PM	Disciplinary Sanction	Action Taken
Lambert, Jack Ricky	Eating in class	Tongko, Christian Dela Cruz	1-3-2022, 02:10:05 PM	Verbal Communication, Disciplinary Sanction	Action Taken
Lee, Frank Chua	Cheating during exam	Abibug, Iris Faye R	1-3-2022, 11:45:57 AM	Verbal Communication	Action Taken
Quinn, Jason Ledwaba	Eatin in class	Seranno, Mitch Almarinez	12-17-2021, 11:28:49 AM	Disciplinary sanction	Action Taken
Roberts, Keith Bailey	Using Laptop during pe	Mortera, Immanuel P	12-16-2021, 03:50:13 PM	Verbal Communication, Disciplinary Sanction	Action Taken
Roberts, Keith Bailey	using cp during lecture	Mortera, Immanuel P	12-16-2021, 03:49:22 PM	No action taken	Cancel - Move to Archive
Larry, Mitchell Reyes	Cutting classes	Lore, Lexi Rodriguez	12-15-2021, 01:21:29 PM	verbal abuse on another student	Action Taken
Duncan, Joseph Porter	Eating In Class	Lore, Lexi Rodriguez	12-15-2021, 01:18:19 PM	eating during class	Action Taken

For the print. Select the **Print** button.

1/25/22, 9:49 PM

Archive - ATMS

Print      3 sheets of paper

Destination: EPSON L3110 Series

Pages: All

Copies: 1

Layout: Portrait

Color: Color

More settings

Paper size: Letter

Pages per sheet: 1

Print      Cancel

Name	Reason	Report By	Report Date	Action	Status
Quinn, Jason Ledwaba	Cheatin in class	Seranno, Mitch Almarinez	1-25-2022, 09:33:10 PM	verbal communication	Action Taken
Saga, Alexander Pelin	Eating in class	Saga, Alexander Pelin	1-15-2022, 07:43:47 AM	--	Action Taken
Alsop, Madeleine Quintana	Always absent	Tongko, Christian Dela Cruz	1-13-2022, 02:45:20 PM	No action taken	Cancel - Move to Archive
Hudson, Sally Santiago	cutting class	Tongko, Christian Dela Cruz	1-5-2022, 12:02:39 PM	No action taken	Cancel - Move to Archive
Marshall, Kimberly Quizon	always absent, never present	Tongko, Christian Dela Cruz	1-5-2022, 12:01:47 PM	Disciplinary Sanction	Action Taken
Lambert, Jack Ricky	Eating in class	Tongko, Christian Dela Cruz	1-3-2022, 02:10:05 PM	Verbal Communication, Disciplinary Sanction	Action Taken
Lee, Frank Chua	Cheating during exam	Abibug, Iris Faye R	1-3-2022, 11:45:57 AM	Verbal Communication	Action Taken
Quinn, Jason Ledwaba	Eatin in class	Seranno, Mitch Almarinez	12-17-2021, 11:28:49 AM	Disciplinary sanction	Action Taken
Roberts, Keith Bailey	Using Laptop during pe	Mortera, Immanuel P	12-16-2021, 03:50:13 PM	Verbal Communication, Disciplinary Sanction	Action Taken
Roberts, Keith Bailey	using cp during lecture	Mortera, Immanuel P	12-16-2021, 03:49:22 PM	No action taken	Cancel - Move to Archive
Larry, Mitchell Reyes	Cutting classes	Lore, Lexi Rodriguez	12-15-2021, 01:21:29 PM	verbal abuse on another student	Action Taken
Duncan, Joseph Porter	Eating In Class	Lore, Lexi Rodriguez	12-15-2021, 01:18:19 PM	eating during class	Action Taken

## Gate Attendance



### STI College Programs

- BS Information Technology (BSIT)
- BS Computer Engineering (BSCpE)
- BS Business Administration (BSBA)
- BS Accountancy (BSA)
- BS Tourism Management (BSTM)
- Bachelor of Multimedia Arts (BMMA)
- Bachelor of Hospitality Management(BSHM)

No Tuition Fee Increase | Scholarships Available  
Tertiary Subsidy Education (TES) Available

+ FREE

Up to 34GB Monthly Data Plan  
Microsoft Office 365 Accounts

Santa Rosa Campus

[santarosa.sti.edu](http://santarosa.sti.edu)

Enroll Online | [apply.sti.edu](http://apply.sti.edu)

This is the gate attendance interface and is accessed by the gate account. Gate Attendance interface shows the person who tap-in and out of the system. The interface shows also the current date and time. The picture also changes from time to time.

## REQUEST LETTER

21, May 2021

Mrs. Madelyn B. Navalvo

STI College Santa Rosa College Dean

Francisco A. Canicosa Ave, Balibago, Santa Rosa, 4026 Laguna

RE: Permission to Conduct Research Study

Dear, Mrs. Madelyn B. Navalvo

We, the third-year students of STI College Santa Rosa pursuing a degree in Bachelor of Information Technology, are currently enrolled in Capstone Project 1. We are writing to humbly request permission to conduct a research in STI College Santa Rosa Tertiary Department. Our research entitled **Student Attendance Monitoring System for the Tertiary Department of STI College Santa Rosa** have a goal to identify issues and propose a possible solution for the problem in the current attendance monitoring system used in the tertiary department of STI College Santa Rosa.

Your approval to conduct this study will be greatly appreciated.

Respectfully yours,

The researchers

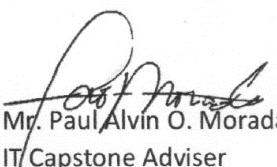
  
Mitch A. Serrano

  
Alexander P. Saga

  
Jan Amiel M. Arceo

Noted by,

  
Engr. Cirilo S. Pagayunan Jr.  
IT Capstone Coordinator

  
Mr. Paul Alvin O. Morada  
IT Capstone Adviser

Approved by,

  
Mrs. Madelyn B. Navalvo  
STI College Santa Rosa College Dean

## **SURVEY QUESTIONNAIRE**

## INTERVIEW QUESTIONNAIRE

- 1) What is STI College Santa Rosa Tertiary Department current system for attendance monitoring?

Previously we have attendance monitoring system

- 2) Approximately, how many professors and students are there on STI College Santa Rosa's College Department in the current semester?

32 - faculty

1000+ - students

- 3) Is RFID Gate Attendance can be made available for STI College Santa Rosa College Department?

yes

### Additional Suggestions:

- If the student is absent, there should be a or an excuse button where the professor can provide reasons why that student is absent.
- Professors should have separate database. There should be a dashboard where the Dean can see if the professor is present in class or not.
- Make the system online as implementing it locally will risk their campus security.

Mitch A. Serrano  
4/20/2021

Interviewer

  
Mrs. Madelyn B. Navallo  
STI Santa Rosa College Dean

*QUESTIONNAIRE*  
INTERVIEW QUESTIONNAIRE

1. How many students are enrolled in the current semester in the tertiary department in STI College Santa Rosa in total?

824 students

2. How many courses are offered in the tertiary department in STI College Santa Rosa? Total number of students enrolled per course.

8 courses

3. How many faculty members are in the tertiary department in STI College Santa Rosa in total?

32 faculties including the Program Heads and  
me

4. How many departments are there in STI College Santa Rosa in total?

*3 academic departments*



Jan Amiel M. Arceo

Interviewer



Mrs. Madelyn B. Navallo

STI Santa Rosa College Dean

Enter your full name (Surname , First name , Middle Initial)

8 responses

Paglinawan, Ariel D.

Bustamante, Alexie A.

Lazaga, Rostelito N.

Pagayunan, Cirilo Jr. S.

Morada, Paul Alvin O.

LAGUERTA, MONICA LIZA T.

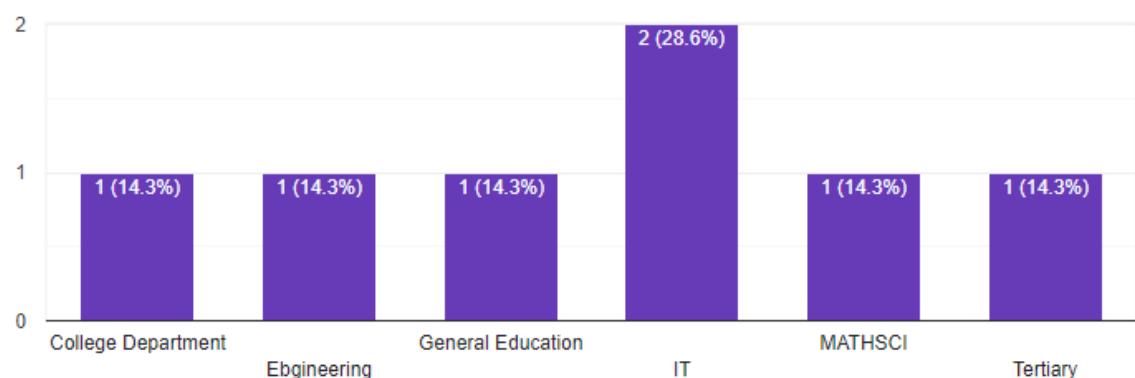
Tongko, Christian D.

Raul C. Sison

Enter your department

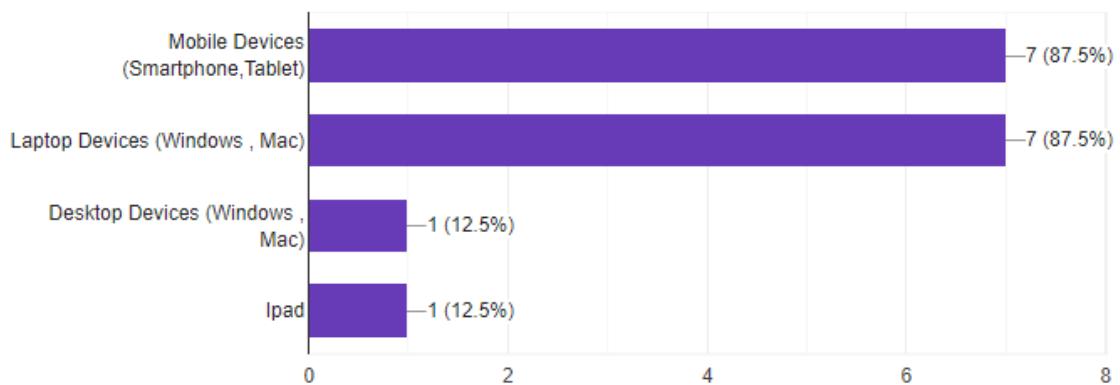


7 responses



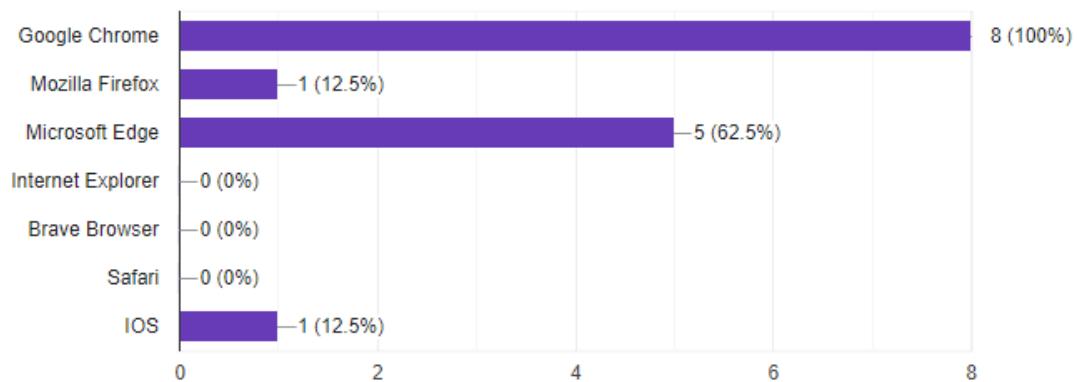
### What device(s) you currently have?

8 responses



### What browser does your device have?

8 responses



The researcher uses a Simple Random Sample to identify the existing devices and browser availability of the faculty members of STI College Sta. Rosa. The proponents surveyed 8 faculty out of 32 to identify the probability of the faculty of having this device and type of browser. The survey shows 7 out of 8 of the faculty members are using mobile devices and laptop devices and the rest use a desktop device. In browser specification, a hundred percent (100%) of the faculty members are said to have a Google Chrome browser to browse the internet. And at least 5 out 8 faculty members use Microsoft Edge for their browsing experience. To conclude, most of the faculty members are eligible for having gadget devices to avail the proponents propose system and they have the capability to access the proponents propose a system based on the availability of their browser.

Name (Last Name, First Name, Middle Initial)

8 responses

Tan, Egmedio Barrientos

Maloles, October A.

Tongko, Christian D

Santos, Precious N

Endrinal, Angela C

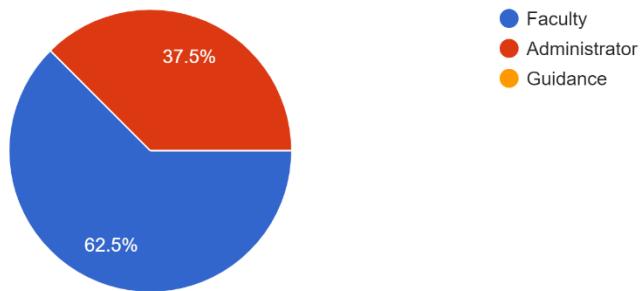
Ramos, Mariel Kayneth, Bingco

Gamboa, Lucita Cabral

Navallo, Madelyn Bautista

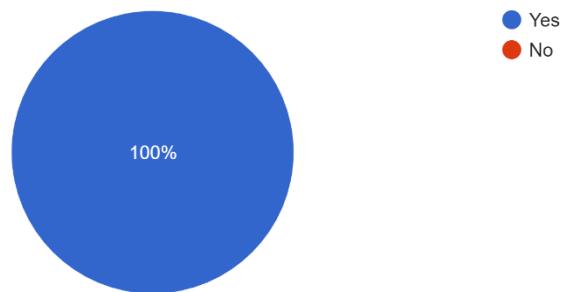
Position

8 responses



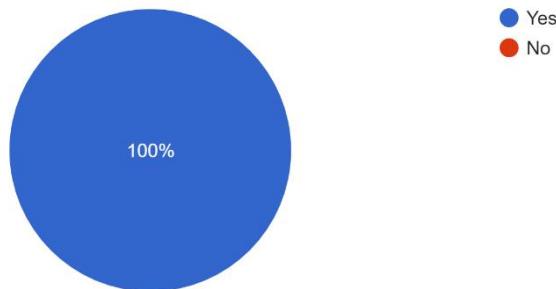
Based on the number of student/s you handle currently; do you think that using the system developed by the proponents can help you track their attendance easily?

8 responses



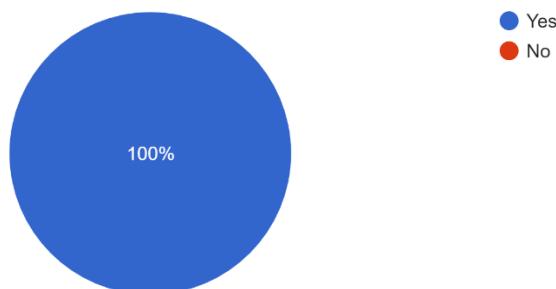
Is your device able to run the system?

8 responses



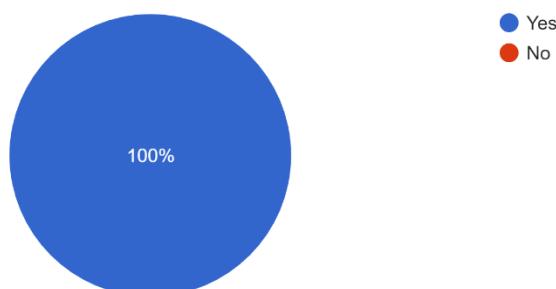
Do you consider the design of the system as user-friendly?

8 responses



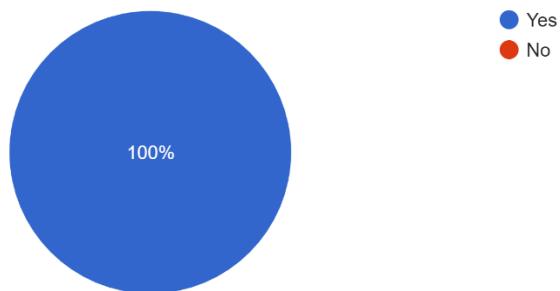
Are you able to export data from the system to pdf and excel file?

8 responses



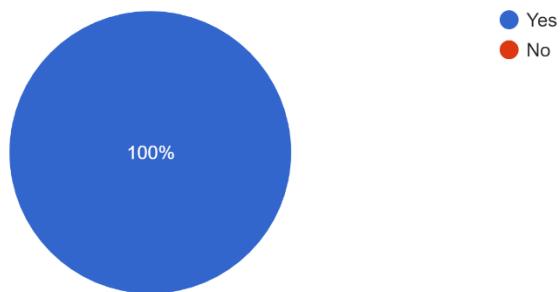
Do you think that the system developed by the proponents improved the current attendance monitoring system of STI College Santa Rosa?

8 responses



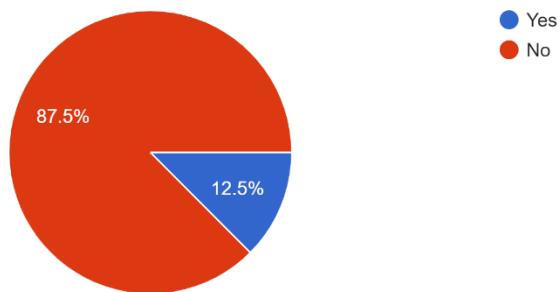
Are you satisfied with the performance of the system?

8 responses



Did you encounter a problem while testing the system?

8 responses



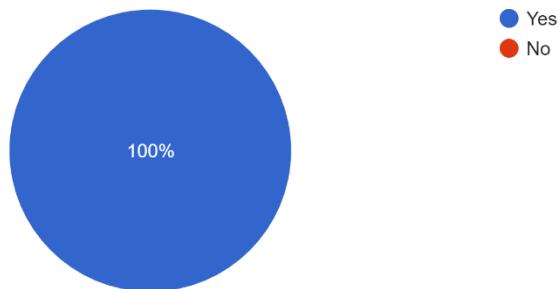
Are you satisfied with the features of the system?

8 responses



If used regularly, do you think that the system can improve your overall attendance taking experience?

8 responses



## **PERSONAL TECHNICAL VITAE**

**Arceo, Jan Amiel M.**

Blk 7 Lot 10 Bagong Santa Rosa Village Pooc  
Santa Rosa, Laguna, 4026  
0905 319 4628  
amielarceo@gmail.com

**CAREER OBJECTIVES:**

Position to help and grow my experience, skills, and knowledge to the company.

**PERSONAL INFORMATION:**

Birthplace : Santa Rosa, Laguna  
Birthdate : January 09, 2000  
Age : 21  
Gender : Male  
Civil Status : Single  
Religion : Roman Catholic  
Nationality : Filipino  
Language : Filipino / English

**OJT EXPERIENCE:**

<b>Immersion:</b> <b>CREOTEC Philippines Inc.</b> 117 A Laguna Technopark, Technology Ave Biñan, Laguna December 2017	<b>Duties and Responsibilities:</b> • Accountant
---	---

**EDUCATIONAL ATTAINMENT:****Tertiary Level**

**STI College of Santa Rosa, Laguna**  
**(Bachelor of Science in Information Technology)**  
STI Bldg. 1 & 2 Santa Rosa Commercial Complex  
Balibago, City of Santa Rosa, Laguna  
2018 – Present

**Second Level  
Rosa Inc.**

**Junior High School – Blessed Christian School De Sta.**  
Rizal Blvd. Balibago, City of Santa-Rosa Laguna  
2016-2017

**Sta.Rosa Inc.**

**Senior High School Blessed Christian School De**  
Rizal Blvd. Balibago, City of Santa-Rosa Laguna  
2017-2018

**Highschool - Colegio de Sta.Rosa de Lima Inc.**

Rosa

Phase1 Olympia Park Subd. Brgy. Labas, City of Santa  
Laguna  
2012-2016

**Primary Level**

**Pulong Sta. Cruz Elementary School**

Rizal Blvd. Balibago, City of Santa-Rosa Laguna  
2006-2007

**Blessed Christian School De Sta.Rosa Inc.**

Rizal Blvd. Balibago, City of Santa-Rosa Laguna  
2007-2009

**Pulong Sta. Cruz Elementary School**

Santa Rosa - Tagaytay Rd, Pulong Santa Cruz, Santa  
Rosa, 4026 Laguna  
2009-2012

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**SKILLS AND ABILITIES:**

- Proficient in MS Office: MS Word, MS Excel, and MS Powerpoint
  - Knowledgeable in Programming: C# and Java
- 

**CHARACTER REFERENCE:**

**Mr. John Rey O. Depone**

Blessed Christian School Principal/Teacher  
+639228446071



Jan Amiel M. Arceo

Applicant

**SAGA, ALEXANDER P.**

0703 CSERV Purok 3 Brgy. Sinalhan  
Sta. Rosa Laguna 4026  
+639126997937  
lexansaga72@gmail.com

**CAREER OBJECTIVES:**

Mature and reliable college student looking for a job to learn as much as possible that gives a scope to enhance my knowledge and utilizing my skills towards the growth of the organization.

**PERSONAL INFORMATION:**

Birthplace : St. Joseph, Binan Laguna  
Birthdate : March 16, 2000  
Age : 21  
Gender : Male  
Civil Status : Single  
Religion : Iglesia Ni Cristo  
Nationality : Filipino  
Language : Filipino / English

**OJT EXPERIENCE:****Immersion:****Prime Infoserve Network Inc.**

Francisco Canicosa Ave. Balibago, SRL

Jan 2018 - Mar 2018

**Duties and Responsibilities:**

- Data Encoder
- File Manager
- Database Management

**EDUCATIONAL ATTAINMENT:****Tertiary Level****STI College of Santa Rosa, Laguna****(Bachelor of Science in Information Technology)**

STI Bldg. 1 &amp; 2 Santa Rosa Commercial Complex

Balibago, City of Santa Rosa, Laguna

2018 – Present

**Second Level****Junior High School – Jacobo Z. Gonzales Memorial National High School**

San Antonio Binan Laguna

2011 – 2016

**Senior High School – STI College Santa Rosa**

Santa Rosa Commercial Complex Balibago,

City of Santa Rosa, Laguna.

2016 – 2018

**Primary Level**

**Sinalhan Elementary School**

Brgy. Sinalhan Sta. Rosa Laguna

2006-2011

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**SKILLS AND ABILITIES:**

- Proficient in MS Office: MS Word, MS Excel, and MS Powerpoint
  - Have a good written and oral Communication Skills
  - Knowledgeable in Programming: Web and Mobile Development , C# , Java and Python
  - I am fast learner, confident, and has a keen eye to details.
- 

**CHARACTER REFERENCE:**

**Mitch Serrano**

College Student

Barangay Tagapo

City of Santa Rosa, Laguna

+639760214698



**Alexander Saga**  
Applicant

**SERRANO, MITCH A.**

232 Rizal Blvd. Brgy. Tagapo  
Santa Rosa, Laguna, 4026  
+639760214698s  
Ser.mitch2k@gmail.com

**CAREER OBJECTIVES:**

Mature and reliable college student looking for a job to learn as much as possible that gives a scope to enhance my knowledge and utilizing my skills towards the growth of the organization.

**PERSONAL INFORMATION:**

Birthplace : Floridablanca, Pampanga  
Birthdate : July 30, 2000  
Age : 19  
Gender : Male  
Civil Status : Single  
Religion : Roman Catholic  
Nationality : Filipino  
Language : Filipino / English

**OJT EXPERIENCE:****Immersion:****Prime Infoserve Network Inc.**

Francisco Canicosa Ave. Balibago, SRL  
Jan 2018 - Mar 2018

**Duties and Responsibilities:**

- Data Encoder
- File Manager
- Database Management

**EDUCATIONAL ATTAINMENT:****Tertiary Level**

**STI College of Santa Rosa, Laguna**  
**(Bachelor of Science in Information Technology)**  
STI Bldg. 1 & 2 Santa Rosa Commercial Complex  
Balibago, City of Santa Rosa, Laguna  
2018 – Present

**Second Level**

**Junior High School - Child Formation Center II**  
Zavalla 3 Village, Santa Rosa  
2011 – 2016

**Senior High School – STI College Santa Rosa**  
Santa Rosa Commercial Complex Balibago,  
City of Santa Rosa, Laguna.  
2016 - 2018

**Primary Level**

**Tagapo Elementary School**  
Brgy. Tagapo, Santa Rosa, Laguna

2006-2011

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**SKILLS AND ABILITIES:**

- Proficient in MS Office: MS Word, MS Excel, and MS Powerpoint
- Have a good written and oral Communication Skills
- Knowledgeable in Programming: C# and Java
- I am fast learner, confident, and has a keen eye to details.

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**CHARACTER REFERENCE:**

**Alexander Saga**

College Student

Barangay Sinalhan

City of Santa Rosa, Laguna

Laguna

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**Maurenel Soliven**

College Student

Barangay Pulong Sta. Cruz

City of Santa Rosa, Laguna

+639657228468

**Laila Almarinez**

Store Owner

Barangay Tagapo

City of Santa Rosa,

+639395915302



Mitch A. Serrano

Applicant