**CHAPTER ONE**

**INTRODUCTION**

* 1. **PREAMBLE**

Student result monitoring system (SRMS) is a class system for student to monitor their result by entering results for a section and a semester in a database for reference and to keep track of their success academically.

The effort expended in the process of registration of students and computation of their examination results, quite worrisome is the fact that these processes are carried out every academic session, putting the operators in a continuous and ever demanding cycle. The computation of examination results and registration of students is obviously an object-centered activity, the student being the dominant object in this case. Hence, the need to evolve a computerized process that will effectively and efficiently capture all the important data associated with the registration and examination result processing within the University and the interactions among the objects.

Students’ Examination Result is the summary of each of the semester or five years performance in a degree program for Bachelor Degree to be terminable. A students’ Result is also demanded by a student who has finished BSc. or BTech. and wishes to transfer to another school or student who wishes to get a job. A Transcript is not given directly to a student. It is sent to the school that the student wishes to be transferred, or to the organization or establishment that requires the result.

* + 1. **STUDENT RESULT GUIDE**

When a student attends an academic institution (s), a record is kept which traces his/her academic history. The students’ examination Result displays a record of all the credit and grades a student has acquired at each school attended. Below are frequently asked questions about students examination Results.

* **How is a student's examination Result used?**

By all students:

Student can use a student’s examination Result as a means of monitoring their credit classes and grades and to make sure the information is accurate. Students use an “Unofficial student’s examination Result “for this purpose. When a student is applying to another college or university, enrolling institution will require for an official students examination Result so that credits can be evaluated by the enrolling institution.

An enrolling institution conducts a student's examination result evaluation to place a student at his or her appropriate academic level.

* **How can I obtain a student’s examination Result?**

Student must request their students’ examination Result from the office of Record or from the office of the Registrar. Each school has its own student’s examination Result release procedures.

Because students examination Result requests are covered by the family Educational Rights and privacy. Act ,students ( giving name, date of attendance ,and social security number), or provide proper documentation when appearing in person often schools provide a “Request for official students examination Result “form .A small fee is usually charged .The difference between official and unofficial students examination Result is that ,official students examination Result must meet certain standards and be sent directly from one institution to another .In some cases, the college will accept an official students examination Result from the student if it hand delivered in a sealed envelope. Unofficial students’ examination Result can be sent directly to a requesting student. It could be marked as an unofficial student’s examination Result or issued to students but not all schools issue these.

* **Wil**l **all my credit be transferred?**

Each school has its own transfer credit acceptance policies. Credit transfer problems can result if:

* An institution does not have proper accreditation.
* Certain courses are taken (e.g. base skills or physical education courses) that are not approved for transfer.
* The amount of credit hours earned exceeds the maximum amount the institution will transfer.
* The enrolling institution has a difficult time evaluating a course.
  1. **PROBLEM STATEMENT**

The need to create Student result monitoring system is very essential for every levels in the higher institution, student results are always in printed form where by student can misplace it or the school database can be damaged which might lead to the permanent loss of the results. At times sorting out a particular student to print another result takes time. This bitter complaint and the delay in the preparing to print another result of this students has been the major concern and therefore has intensified the need to design a generating software which will go a long way in tackling these problems and proffering solutions, at the same time to quicken the generating of student’s result.

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**1.4 AIM AND OBJECTIVES**

The aim of this project is to create a Class result monitoring system in order to solve result problems listed above in the problem statement. To achieve the above aim, the following objectives will be pursued:

* To implement Class result monitoring system.
* To create an easy to use for student.

**1.3 SCOPE OF STUDY**

This project is intended to create a Class result monitoring system using C # a.net programming language and SQL as the backend database for storage in order to prevent the problem listed above and the system will be developed for student in the Department of Computer Science CSC (Part Time Section).

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**1.5 SIGNIFICANCE OF THE STUDY**

Students stand to greatly benefit from this project work. Student have full hope that their result is digital saved apart from the departmental storage which can be easily accessed which can be re-printed as a partial copy that is of same data as of the department result collected but similar in design, access to result at any time for cross check and for academic improvement.

**1.5 PROGRAMMING LANGUAGE**

The system is entirely developed using C**#** and its APIS, C**#** development platform Visual Studio was used and SQL as the database for the backend.

**1.6 LIMITATION OF STUDY**

While this research was carried out, there might be some little itches experience and they includes:

* Lack of constant power supply.
* Financial limitation.
* Lack of the needed materials.

**1.7 DEFINITION OF TERMS**

During the execution of project there are some relevant words that are used in the study which are important to make references to such words, and they are as follows:

* Course: This is a programme of study or training, especially one that leads to a degree or certificate from an educational institution; or a unit of study relating to a specific academic discipline.
* Computation: To calculate a particular thing, but in this study it means calculating of CGPA.
* Grade: A mark indicating the quality of a student’s course work in a semester.
* CGPA: An abbreviation or acronym for Cumulative Grade Point Average.
* Credit Unit: It is a unit that is an equivalent value to an academic course.
* Grading System: This is the pattern and methods used to award a value to the Student’s scores.
* Data: Raw information or it is fact and figure collected together for references.
* Direct Data Captured: Data is capture directly without a conversion stage, by means of the input devices such as mouse, keyboard, pen writers, cameras, e.t.c.
* Input: Is the term denoting either an entrance which is inserted into a system. These are hardware that helps to send data in form of input to the computer.
* Data Entry: Data is entered directly into the computer one transaction at a time (also known as transaction processing) under program control.
* Output: These are computer hardware that is responsible for giving out processed information.
* Software: The program and other operating information used by computer; also a set of programs written to carry out some task in the computer. Logical related programs that works together to control hardware.
* Process: This is the management of transportation of data into useful information.
* Students Examination Result: An official record of student’s work that show the courses they have taken and the marks they have achieved.
* Design: The art or process of deciding how something will look, works etc.
* Documentation: The act of recording something in a document. Material that provides official information or evidence or that serves as record; written specifications and information that describes the product.
* Student: A person who studies in a secondary or tertiary institution.
* Faculty: A group of related departments in an institution or university.
* Department: This is a smaller subset within a faculty in charge of a course of study.
* Semester: A semester system divides the academic year into two terms when the students are in school.
* Subject: This is a unit of academic instruction.
* Lecture: This is an instruction usually in the form of teaching.
* Database: It is a systematically arranged collection of computer data, structured so that it can be automatically retrieved or manipulated.
* Credit Unit: It is a unit that is an equivalent value of an academic course.
* Lecturer: A member of the faculty in the university, who leads research groups and supervise research students, as well as teach the students.
* Undergraduate Student: This refers to students who are pursuing a bachelor’s degree.
* Biodata: Personal information of a student.