



ILOCOS SUR POLYTECHNIC STATE COLLEGE

**COMPUTERIZED INFORMATION SYSTEM FOR
STUDENTS OF SULVEC INTEGRATED SCHOOL
SULVEC NARVACAN, ILOCOS SUR**

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CHAPTER I

INTRODUCTION

The study has been undertaken as a fundamental requirement of implementing “Computerized Information System for Students of Sulvec Integrated School” (CISSSIS), Sulvec, Narvacan, Ilocos Sur. This turn generated a detailed requirement specification from the current electronic system, investigation, analysis and comparison. The requirements specification was analyzed and evaluated.

Since we are in the stage of fast growing technology, as far as technology is concerned, Especially on computers which are widely used in various application such us school, companies, businesses and at homes. Computers are of great help when it comes to record keeping.

Record keeping or so-called manual system is laborious task and time consuming. It requires, more time to process and adversely affects work efficiency.

The existing manual system is time consuming and ineffective and computer base system would be a good solution for safety and reliability of records.

Background of the study

The School at first has no Administrative Officer or Principal assigned but with an officer-in-charge. An office was established in a room of the old Gabaldon building and said building has been requested for dilapidation and thus needs replacement. It is where the mini library was organized and where the only computer unit is found.



Every advisory classroom has a functional reading corner.

Sulvec, one of the thickly populated barangay of Narvacan, Ilocos Sur is where the Sulvec Integrated School and a branch are found. The school is found along the national highway which is approximately six (6) kilometers north of the town proper, and where the 503rd Brigade, 51D, PA is based and a State College of Fisheries with secondary education is found.

Sulvec Integrated School was established in 1924 offering Primary Level of education. In 1935, the school was authorized to offer grade level 1 to 6, that time, the school population was scarce. Nevertheless, the population of the school gradually increased as year pass by.

Record collected during enrolment is being compiled and kept at the Principal's Office. Teachers who occasionally use the records will come across with incomplete to a much undesired answer to their queries. Often times, they are not satisfied due to inaccurate information entered in the forms.

The files of the students are kept at the principal's hanging cabinet. Yearly, the records are appended because of new enrolment. The current set-up of record keeping of that said school is somewhat undesirable because records are not well stored, disorganized and not filed systematically.

With this present system of record keeping, it is expected that vital records of students are prone to disaster either natural or manmade such as: fire, flood and earthquakes.



The core aspect of the study is to solve the existing problem using a proposed Computerized Information System for Teachers and Students in order to eradicate problems regarding record keeping at the Principal's Office of the Sulvec Integrated School.

The said computerized system can provide accurate and reliable information system for the Principal and for all the teachers and students as well as to the parents whenever the need for their records arises.

Significance of the Study

Presently, the school is facing difficulty on record management. The files are inappropriately kept and compiled. Likewise, there is vulnerability apparent to natural and man-made calamities on the storage.

The fundamental rationale in the conduct of this study is to get rid of the inefficient and ineffective current system of the school; hence, the use of The Computerized Information System for Teacher's and Students of Sulvec Integrated School is the best alternative solution to the record keeping activities of the school.

To the administration of the school, the research will contribute a lot to their students management record keeping ability.

Statement of the Objectives

General Objective

To developed a Computerized Information System for Students of Sulvec Integrated School, Sulvec, Narvacan, Ilocos Sur.



To help the Students retrieve records through "Computerized Information System for Students of Sulvec Integrated School"(CISSSIS).

Specific Objectives

The CISSSIS of Sulvec Integrated School specifically the Students to;

1. Store records through CISSSIS of Sulvec Integrated School file maintenance system like adding, editing, saving and updating records.
2. Search specific records of Students using a primary key with just a tick of a second.
3. Secure the file using the CISSSIS security system.
4. Produce updated and accurate records of Students.
5. Easy to maintain the records.

Statement of the Problems

Presently the administrators' office is using manual electronic system of recording and filing of forms which is done by teachers and students.

1. Files are kept at Principal's hanging cabinet;
2. Files are search at Principal's hanging cabinet;
3. Some records are misplace or lost;
4. Files are prone to disaster such as: fire, flood and other physical related threats.



Dilemma comes when record keeping is inefficient and inaccurate in data management techniques.

Conceptual Framework

The conceptual framework is the basic of the researcher's, which serve as a guide to conduct a study. Through this conceptual framework paradigm the researcher's able to develop a system that is suitable for the school. The input shows the current information system. The processes are the stops where in the researcher's push them to develop a system which is the output (The New Computerized Information System).

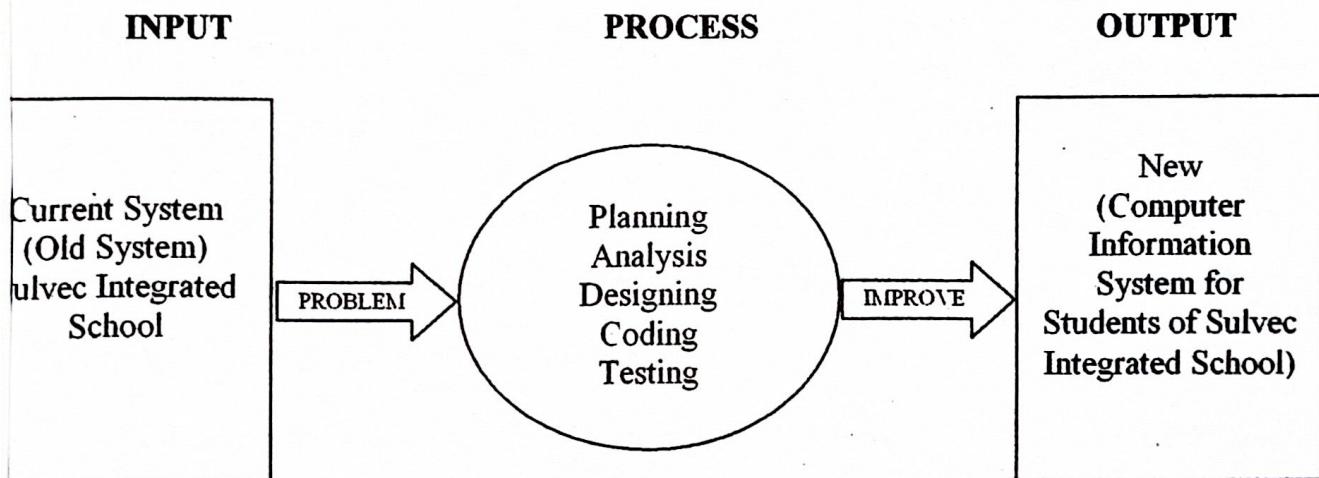


Figure1. Conceptual Framework

Scope of Delimitation

The research is focused on the students of Sulvec Integrated School, Narvacan, Ilocos Sur. These researchers acquired information through the office of the principal.



No other records will be compiled except the data that comes from the records of the students, and grade of students provided by the teachers.

Assumption

The successful development the CISSSIS depends on the following assumption:

1. The principal and other concerned in the information system process
2. For the development of the system the resources required are hardware and software which are very much available.
3. The administration is willing to implement the system developed.

Definition of Terms

Computer – is a programmable, multi-use, machine that accepts data (raw fact and figure) and processes, or manipulates information we can use such as summaries and totals.

Computer Databases – refer to the same database plus the help of the computer in the organization and presentation of information data.

Data or Information – refers to an unprocessed and processed data or information. Data consist of raw facts and figures that are processed into information. Information is summarized data or otherwise manipulated data that is useful for decision making.

Database – is an organized selection of related information.

Data flow diagram – is a figure that illustrates the flow of data within a system and operations performed on data.



Documentation – are written manuals, diagrams, narratives, layouts, or drawings that describe how a system function.

File – is a collection of records that can be manipulated by people or machines.

Flowchart – is a modeling tool that uses many symbols (symbols which represents operations) to diagram the input, processing, and output of data in a system as well the interaction of all the parts in a system.

Hard Copy – is a permanent document such as a piece of paper or printed form.

Hardware – is the device and other physical things involve in processing information, such as computers, workstations, physical network, and data storage and transmission devices.

Hierarchy plus Input- Process – output (HIPO) – is a structured diagram that defines procedures and operations in a hierarchical manner.

Information System – is a system that uses information technology to capture, transmit, store, retrieve manipulate or display information used in one or more business processes.

Information Technology – is the hardware and software that make information system possible.

Software – is the computer programs that inter- user inputs and tell the hardware what to do.

Program – is a series of instructions that performs specific task.



CHAPTER II

REVIEW OF RELATED LITERATURE

Student Information System “SIS” is an integrated information technology environment for students, faculty, Staff and administration. Our goal is to focus on integration for end users.

Student Information System (SIS), meet accountability demands with our comprehensive student information systems. Our easy-to-use, integrated college administration applications are proven to reduce time spent on administrative tasks so you can concentrate on raising student achievement. Student Information System accepts process and generates reports accurately and at any point in time and any user can get the student information.

Student Information System is proven to reduce time spent on administrative tasks so you can concentrate on raising student achievement. “SIS” facilitates networking of colleges/schools to University/Board, colleges/schools to Society, colleges/schools to each other, provided they are equipped with these systems.

In the past, universities in particular have created their own student record systems, but with growing complexity in the business of educational establishments, many organizations now choose to buy customizable off-the-shelf software. Modern student information systems are usually server-based, with the application residing on a central computer server, and being accessed by client applications at various places within and even outside the school. Since the late 1990s, student information systems have been moving to the web. Some are entirely web-based (data entry and viewing), whereas others only allow



viewing on the web of some information. (http://en.wikipedia.org/wiki/Student_Information_system)

An efficient software application lies greatly on its quality and performance information system being used in companies where it remained indispensable (necessary).

The Malaysian government has played an active role in promoting the use of IT in education through the Smart school project. With the advent of Information Technology, Computer-base systems have been developed to improve our way of doing things. The goal of the project is that by the year 2010, all students at Malaysians schools will learn the use of computers. Most of the Computer-based systems that have been developed by various companies in the world is geared towards helping students in their learning process. (<http://jabatan>).

The University of Florida said that the need for complete and accurate recording of ideas has never been more important. But for other educational institution, the reliability and safety of its records are of great importance. In the industrial setting good laboratory record keeping has always been necessary in order to preserve intellectual property right.