CHAPTER I

INTRODUCTION

Project Context

According to Kendall (2003), Data Management is the core of an Information System. Hence, data play a very important role in an information system of any organization. The ability to organize, efficiently manage, and make data available to users when needed within a reasonable time, is a principal success factor in any school or business organization.

Computerized student information management system has progressed from those that could simply replicate or automate the most simple task like registering new students, courses that previously performed by course staff in the registrar's office, and to those that are intended to convey more complex information. Information created can easily be retrieved, modified and shared without difficulty.

As the information becomes more complex, however, it becomes less and less likely that this will be the case and this presents us with one of the key problems of the information Systems (or Informatics) discipline, namely, how to use technology to assist people to share meaning derived from complex information and how to teach people to use technology optimally.

Nowadays, many organizations use a different computerized system that connected to a centralized database via intranet. An intranet is a network that provides services within an organization that are similar to those provided by the internet, but are not necessarily connected to the internet. Intranets are typically protected by "firewalls" for security purposes and it is considered as private internet.

Mobility is primarily about people moving around, having seamless wireless access to information and services. According to Bambam Kumar (2014), the mobile applications are the heart of every smartphone. The reason is simple - no matter what business you are into, in today's world, you need to have the mobile app for your business so that the customers can reach out to you. And using mobile application can solve the communication problem through interactive apps and the accessibility becomes easy. Also, any important notifications, messages or warnings can be communicated with ease. This leads to more customer satisfaction, which in turn will help the business to grow further.

Purpose and Description

Student information management systems are the primary systems for operating schools. The system includes student registration, enrollment, scheduling, grading, and reporting. These systems are significantly used by the school registrar's staffs, educators and school boards to collect the information they need to manage student achievement. Since, the Kabankalan Catholic College - College Department is still using a manual student information management system that are growing obsolete and unable to keep pace with school and school head management needs.

As the enrollees increase every semester, the manual procedure of inputting the student's information becomes difficult. In Kabankalan Catholic College - College Department, the enrollment is being done manually by the registrar and when the enrollment starts the registrar will have a hard time to enroll a student in their current enrollment system, they found that using a manual process is hard to handle such as a collection of records like storing, finding, sorting and securing of records particularly if this stored only in one room and in a limited space. The

enrollment itself can be considered as a problem for students. From evaluation to validation, it is a long process, and students have to go back and forth in different offices (Deans, Registrar and Accounting) to complete the enrollment procedure. It can be tiring and such a waste of effort for the students.

Aside from the problem during the enrollment, the school registrar finds difficulties in organizing the class schedule, assigning of faculty loads that cause of delay of class during the opening of classes, creating of a class listing, creating a different reports for school board needs, manual encoding of grades from grade sheet submitted by different instructors that also cause a big delay in creating a report for submission to Commission on Higher Education (CHED).

Having considered the above issues and concerns, the researcher was motivated to propose the development of the Student Information Management System with Mobile Application Support for Kabankalan Catholic College - College Department.

The proposed system will minimize the difficulties in handling the manual enrollment process by using a computerized enrollment system that will provide a faster, more convenient way of storing and retrieving the information in a centralized database system.

General Objective

This research aims to develop the Kabankalan Catholic College - Student Information Management System (KCC-SIMS) with Mobile Application support for the College Department and will address the following:

1. To identify the problems encountered in the current systems regarding student admission, enrollment, scheduling, grading and report generation.

2. To evaluate the need of developing the Information Management System to assist the students during admission, enrollment, class scheduling, recording of grades.

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