**CHAPTER 1**

**INTRODUCTION**

**1.1 Project Context**

The SPS (Student Profiling System) for a specific College Course of Isabela State University Echague Campus is a project intended for Bachelor of Science in Computer Science. This project focuses on the Gathering, Analyzing and Reviewing data for the target of the project to cater the different transactions of the Department. These transactions are comprising of gathering of student and professor basic data, schedule of classes, class designation, grading system, and attendance monitoring.

Bachelor of Science in Computer Science, College Secretary experience the following problems in the current system is it was a network-based system; No web-based system of higher year of the course; Difficult of accessing in real-time for quick change of schedule/s or changing of professor/s on a subject/s. Also, the SPS will act as newsfeed for changes for an accurate information to students whom have difficulty in contacting their professor/s. The College Secretary uses the network-based system for the repository of grades and unit or subject that a student has taken; for announcing schedules or change to their subject Messenger App is used; late announcement due to poor internet connections are one major problem she encounters.

In order to solve the current problems of Bachelor of Science in Computer Science Course, the proponent will design and develop a Web-Based System Student Profiling System to monitor and inform students and professors in the College Course. Using the system, the data will be analyzed automatically by the system in a tabular format. The data are now organized and the records of the different rates are stored in the Database of the system.

**1.2 Project Highlights**

* Profile of the Enrolled Students of Bachelor of Science in Computer Science
* Manage Profile
* Manage Student Activities
* Manage Student’s Research Repository (Title, Abstract only)
* Manage Students Activities
  + - Award

**Objectives of the Project**

This project aims to design and develop Student Profiling, Attendance Monitoring, and Grading System a Web-based Bachelor of Science in Computer Science Student Profiling System specifically the proponent aims to:

**1.3.1 Test the following System’s Functionality;**

* Profile Students of Bachelor of Science in Computer Science Course.
* Statistical report using a tabular and graphical presentation of data.
* Manage Students Profiles and Activities
* Manage Student Subjects
* Manage Students Researches

**1.3.2 Test the compatibility of the system using the Web Browsers:**

* Google Chrome
* Firefox
* Microsoft Edge
* Safari
* Opera

**1.3.3 Test the compatibility of the system using the Operating System:**

* Computer/Laptop
  + Windows 7,8, 10, 11
  + Linux
  + MacOS
* Smartphone/tablet
  + Android 8 (oreo)-11()

**1.3.4 Evaluate the system using Software Product Quality (ISO 25010) as**

**perceived by users’ acceptability with respect to:**

* Functionality
* Usability
* Reliability

**1.5 Scope and Limitations of the Project**

The system will have two types of user, the first user is the administrator which is the Program Chair followed by the class president. The system is capable to Manage Students’ Records such as the following, the first is the student manage profile in which the system is capable to collect the basic information of the student’s including the name, address, contacts, scholarship grant, device, connection and vaccination information. It also includes the subjects enrolled for every students and professors involved. Next the system is capable to Manage Student Activities wherein the system is capable to track the different contested activities, who are the following students are willing to join and update the award that given to the students. It also include the update of the different webinars that related to the course. And under the Manage Student Research Repository, the system is capable to store and retrieve student researches base by the titles and the abstracts. Another set of users of the system is the class president account where in the user is capable to manage student information of their section. Wherein the president can update student’s information, update student’s activities.

The System will be developed using Figma and XD as the interface prototyping of the user to the system. The System will be developed using HTML and CSS as the interface of the user to the system. The database of the system is MySQL server as the repository of data. It is a web-based system that will used two layer of architecture application layer and data layer.

The System is a web-based system. It means that is accessible using a Web browser and is therefore accessible from anywhere in the world via the Web using any device.

**Glossary**

**CSS (Cascading Style Sheet)** are used to format the layout of Web pages. They can be used to define text styles, table sizes, and other aspects of Web pages that previously could only be defined in a page’s HTML.

**Database** is an organized collection of structured information, or data, typically stored electronically in a computer system. A database is usually controlled by a database management system (DBMS).

**HTML (Hyper Text Mark-up Language)** is the most basic building block of the Web. It defines the meaning and structure of web content.

**Network-based Platform** is a piece of technology or software that connects users with other members of a community to create mutually beneficial opportunities.

**Repository** is a central pace in which an aggregation of data is kept and maintained in an organized way, usually in computer storage.

**Student Profiling System** is a system that is being developed for the managing and keeping demographic information about a particular student which is also related to their behavioural status inside the school. The goal of using this SPS is to have an efficient way of managing and keeping confidential information of the students.

**Web-based system** is an application that is accessed via HTTP. The term web-based is usually used to describe applications that run in a web browser. It can, though, also be used to describe applications that have a very small component of the solution loaded on the client.