**CHAPTER 1**

**INTRODUCTION**

* 1. **Project Context**

The Archive System for a specific College Course of Isabela State University Echague Campus is a project intended for Bachelor of Science in Computer Science. The project focuses on the Gathering, Analyzing, Reviewing, Archiving and Updating data for the target of the project to cater the different transactions of the Department. These transactions are comprising of gathering of student basic data, subjects enrolled, student’s activities like awards, webinars/ conference, contest and student’s past researches.

Bachelor of Science in Computer Science, Program Chair 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 activity of the students. Also, the Archive System will act as newsfeed for the changes for an accurate information to students whom have difficulty in contacting their professor/s. The Program Chair uses the network-based system for the repository of the student’s subject and the future researches that a student has taken; for announcing schedules of enrolment 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 Bachelor of Science in Computer Science Course, the proponent will design and develop a Web-Based System Archive 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 records of the different rates are stored in the Database of the system.

* 1. **Project Highlights**
* Profile of the Enrolled Students of Bachelor of Science in Computer Science
* Manage Profile
* Subjects Enrolled for the Student and Professor Involved
* Manage Student’s Research Repository (Title and Abstract only)
* Manage Student’s Subjects
* Manage Student Activities
* Awards
* Webinars/ Conferences
* Competition/Contest

**Objectives of the Project**

This project aims to design and develop a Web-Based Bachelor of Science in Computer Science Archive System specifically the proponent aims to:

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

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

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

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

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

* Smartphone/tablet
* Android 8 (Oreo)
* Android 11 (Red Velvet Cake/R)
* Computer/Laptop
* Windows 7,8,10,11
* Linux
* MacOs

**1.3.4 Evaluate the system using Software Product Quality (ISO 25010) as perceived by user’s acceptability with respect to:**

* Functionality
* Usability
* Reliability

**1.5 Scope and Limitations of the Project**

The system will have three types of user, the first user is the administrator which is the Program Chair followed by the president and vice president of every section and last is the students of BSCS from freshmen to senior year. The system is capable to Manage Students’ Records such as the following, 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. 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. Under the Manage Student Research Repository, the system is capable to store and retrieve student’s researches base by the titles and the abstracts. The other set of users of the system is the class president and vice president account wherein the user is capable to manage student information of their section. Wherein the president can update student’s information, update student’s activities. And the students of BSCS are capable to view their information.

The System will be developed using Adobe 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**

**Archive System** refer to specific systems that exist to manage and document records of continuing value under the control of archival institution.

**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.

**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.