AES: Automated Evaluation System for Southern Christian College using Django Framework



Judy Ann Ticar

John Rey Arapoc

AJ Lloyd Calixtro

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# Chapter 1

# Introduction

Student’s enrollment happens every school year in Southern Christian College, part of the enrollment process is the “evaluation”, it is a process that students’ progresses to undergo by it because on every department, there is a standard for students that will filter their eligibility for enrollment.

## Project Context

Evaluating students is an essential part of the process for enrolling on every school year or semester, there are requisites, there are set of standards they need to achieve before being verified to be enrolled on the next courses. Now, in Southern Christian College, enrollment is already automated, but process on evaluating students is not. On every department that Southern Christian College have, almost every dean on CCIS, CMAHS, CAS, CTE, Agriculture has been evaluating students manually under their department and large number of students undergoes by it. A lot of time is being spend because of manual evaluation, yet developer created a way for them to lessen the evaluation process and increase their productivity in a mean of time.

## Objectives

1. Turn the manual evaluation into automated
2. Increase a suggestion on decision making
3. Produce a printable output after an evaluation process

## Scope and Limitation

Input – Grades of every student on every department will be stored or synced in the database of the evaluation system.

Process – The stored grades of every student will be separated by department and will possess a primary key or what we call ID number that will help system separation of grades on its accordance. The point of helping the system on easing the time of the client on evaluating a student is that it will highlight the INC, the grade(s) that does not meet the standard of grading policy of a department and the blanked or zero grade on a course(s).

Output – The output of the system will show a display where students’ grades was recorded, from its previous school year or semesters, and this will suggest a decision of what are the possible action of an evaluator might do to a student’s profile or account after. Also, the displayed output will be available to be printed.

## Theoretical Framework

The developers opt to utilize the Automated Performance Evaluation System introduced by Akhai, S., et al. (2017) in their work. They have used a J48 algorithm as they have stated that it provides a maximum accuracy in classifying the instances in an efficient way.

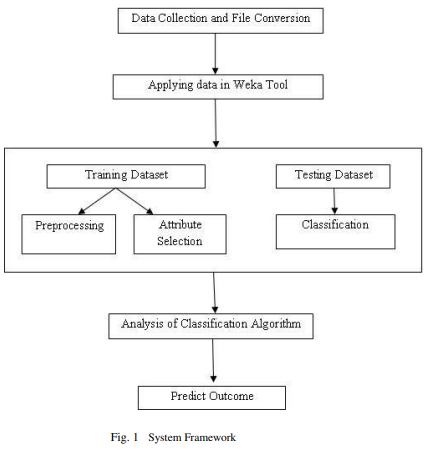


Figure 1. Theoretical Framework

## Conceptual Framework

# Chapter 2

## Definition of Term

**Evaluation**: The process of assessing or judging the quality, value, or significance of something. In this context, it refers to assessing students' progress and eligibility for enrollment based on certain standards.

**Requisites**: Requirements or conditions that must be fulfilled or satisfied in order to achieve a certain goal or qualify for something. In this context, it refers to the standards or criteria students need to meet for enrollment.

**Eligibility**: The state of being qualified or suitable for something, often based on meeting certain requirements or standards.

**CCIS**: Abbreviation for College of Computer Information Science.

**CMAHS**: Abbreviation for College of Medicine and Allied Health Sciences.

**CAS**: Abbreviation for College of Arts and Sciences.

**CTE**: Abbreviation for College of Teacher Education.

**INC**: Incomplete. Refers to a grade indicating that a student has not completed all requirements for a course.

**Grading policy**: A set of rules or guidelines used to determine and assign grades to students' academic work.

**Blanked grade**: Refers to a missing or unspecified grade for a course.

**Primary key**: In the context of databases, a primary key is a unique identifier for each record in a table. It ensures that each record can be uniquely identified and accessed.

**Theoretical Framework**: A theoretical framework provides the conceptual basis for understanding and analyzing a problem or phenomenon. It outlines the theoretical principles or models that guide a study or project.

**FAO**: Abbreviation for Food and Agriculture Organization, a specialized agency of the United Nations that leads international efforts to defeat hunger.

**Framework for Land Evaluation**: A set of principles or guidelines established by the FAO for assessing the suitability of land for various uses.

**Automated Land Evaluation System (ALES)**: A computer program designed to assist land evaluators in gathering, organizing, and analyzing information about land suitability.

**AES**: Abbreviation for Automated Evaluation System, the system being developed in this project.

**Logical flow**: The sequence or progression of steps in a system or process, arranged in a logical order to achieve a desired outcome.