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Course:	Bachelor of Science in Information Technology	School:	Sorsogon State University – Bulan Campus
Year of Award:	2018		

Cloud-Based Web Application System for Capstone Project Monitoring, Managing, and Evaluating with Plagiarism Checker

Capstone Project Title

Brief Rationale:

Capstone Project is a partial requirement undertaken by student taking Computer Studies degree programs like BSIT and BSIS. Students and faculty members face problems in submitting, managing deliverables, and monitoring progresses when using manual or semi-computerized method. With the rise of technologies, students are expected to be knowledgeable and be able to experience the benefits of new technologies. Sorsogon State University – Bulan Campus, specifically the ICT Department, experiences these problems and does not have an online centralized system for the various activities involved in completing capstone projects.

Objectives:

This proposed capstone project aims to design and develop a cloud-based web application for monitoring, managing, and evaluating capstone projects with an external integrated plagiarism checker. Specifically, it seeks to (1) carry out and deliver the following features and modules related to monitoring, managing, and evaluating capstone projects electronically: (1.1) project progress monitoring, (1.2) topic/title proposal, (1.3) adviser and panelists selection, (1.4) task and activities management, (1.5) deliverable's submission, monitoring, and management, (1.6) defense scheduler and manuscript evaluation, (1.7) user's management, (1.8) grades management, (1.9) student management, (1.10) capstone project guide and formatting, and (1.11) discussion forum; (2) integrate an existing plagiarism checker that will check the manuscript for plagiarism, locate it, and report via the percentage of the amount of plagiarized content; and (3) Test and evaluate the proposed project, based on ISO/IEC 25010 Software Product Quality, in terms of: (3.1) functional stability, (3.2) performance efficiency, (3.3) compatibility, (3.4) usability, (3.5) reliability, (3.6) security, (3.7) maintainability; and (3.8) portability of the system.

Methodology:

In the span of two semesters, the proponents will develop the system using Iterative approach for the development life cycle where the flow of development focuses on an initial, simplified implementation, which then progressively gains more complexity and a broader feature set until the final system is complete; Object-Oriented for the analysis and design applying object-oriented programming; and Bottom-up as the development approach. The system will be verified, validated, and tested using client and users survey and interview, functional and non-functional validation, and positive and negative testing.

Noted by:

Signature of Scholar

Anthony S. Gacis

Printed Name and Signature of Capstone Project Adviser

Date

Aug. 26, 2021

Date