DEVELOPMENT OF A LEARNING ENHANCEMENT EXAM TEST PAPER GENERATOR WITH TEST ANSWER SCANNER FOR TUP VISAYAS

A Research Project

Presented to the Faculty of the

Computer Engineering Technology Department

College of Engineering Technology

Technological University of the Philippines Visayas

Capt. Sabi St, Brgy. Zone 12

Talisay City, Negros OccidentalVisayas

by

RODOLFO T. BAYLEN III

YOSHIYUKI CANOY

PATRICK S. LASOLA

PAUL JOHN C. PADOHINOG

CHRISTIAN NOEL J. SALVADOR

JHIMBOY B. TALAGTAG

In Partial Fulfillment of the Requirements for the Degree

Bachelor of Engineering Technology Major in

Computer Engineering Technology

February 2023

Chapter 1 – INTRODUCTION

Background of the Study

These days exams papers are crucial in today's modern society for gauging students' progress in their education. The information of technology is now replaced by the useful applications. Every product that may effectively cut down on time and energy use is acknowledged and appreciated for creating the software. An educational institute may find it essential to build an appropriate automated system for producing test questions and maintaining related data.

Institutions of higher learning must continuously enhance their teaching and learning approaches in the fast-paced, fiercely competitive educational climate of today. The creation and use of efficient assessment systems that can measure student comprehension and information retention with accuracy is one of the critical elements in enhancing learning outcomes.

The issue facing teachers and instructors at Technological University of the Philippines Visayas (TUPV) right now is creating exam test papers that are in line with the learning objectives of their courses and reflect the right level of difficulty for their students. Moreover, manual exam marking and scoring can take a lot of time and be prone to mistakes, providing students with inconsistent grades and feedback.

The creation of a learning enhancement exam test paper generator with test answer scanner for TUPV can offer a solution to these problems by streamlining the exam creation process, ensuring

consistency and accuracy in grading, and freeing up teachers to concentrate on giving their students useful feedback.

Instructors will be able to efficiently construct exam test papers that match their course learning objectives and challenge their students' subject-matter understanding by automating the exam preparation process. Also, the system's automatic scoring and grading capability will let teachers give students more recurrent and impartial feedback, which could ultimately enhance the course's learning objectives.

A test response scanner will also be a part of the planned system, which will increase grading efficiency and lower the chance of mistakes. This system has the potential to raise the standard of instruction at TUPV and could serve as a template for other educational institutions dealing with comparable difficulties in the design and grading of exams.

Objectives of the Study

The main objective of this study is to develop a learning enhancement exam test paper generator with test answer scanner for Technological University of the Philippines Visayas (TUPV) that will automate and streamline the process of creating, administering, and grading exams for instructors and students. The specific objectives are:

1. the creation of exam questions that can be tailored to particular topic areas and degree of difficulty on a user-friendly digital platform.

2. to implement an automatic scoring and grading system that will cut down on the manual grading time and effort and increase the accuracy and consistency of exam outcomes.

3. to incorporate a test answer scanner tool that will let students turn in their answer sheets and get immediate feedback on how they did.

4. To assess the usability and efficacy of the TUPV instructors' and students' use of the learning improvement exam test paper generator with test answer scanner through user testing and feedback.

5. The ultimate objective of this study is to offer TUPV instructors and students a productive and useful tool for developing, giving, and grading tests that will improve students' learning outcomes and experiences while lessening instructors' workload.

Regenerate response

Fast checking of the test paper

Able to create test paper much faster

Time

Scope and Limitation of the Study

The scope of text blast (SMS broadcast) as a method of disseminating announcements within a school setting includes the following:

Significance of the Study

The significance of studying text blast (SMS broadcast) as a method of disseminating announcements in a school setting includes the following:

There are many ways to look at the importance of creating a Learning Enhancement Exam Test Paper Maker with Test Answer Scanner for TUP Visayas, including:

Enhancement of the learning process: The creation of such a system can help students learn better by giving them more dynamic and interesting ways to evaluate their knowledge and abilities. The generator may provide personalized test materials based on each student's requirements, which can help them recognize their strengths and shortcomings and make the necessary adjustments.

Time-saving: By using this approach, teachers can significantly reduce the time spent developing exam questions and scanning answer sheets. They will be able to concentrate more on teaching and giving their students an excellent education as a result.

Adaptability: The system is capable of adjusting to meet the evolving requirements of the educational system and presenting creative answers to the problems faced by instructors and pupils.

The creation of a Learning Enhancement Exam Test Paper Generator with Test Answer Scanner for TUP Visayas has the potential to significantly affect students' learning results, teachers' instructional strategies, and the entire educational system.

Accurate evaluation: The answer scanner of the system provides correct assessment of the exam papers, minimizing any risks of human errors in grading. Fair assessment and evaluation of the students' performance, which is essential for evaluating their development and learning outcomes, might result from this.

Standardization: The method can assist in uniformizing exam questions for various classes and instructors, ensuring that each student has an equal chance to demonstrate their knowledge and abilities.