

**ELECTRONIC GRADING OF LINEAR EQUATION  
USING STRING SIMILARITY MEASURE VIA WEB PAGE**

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## ABSTRACT

Nowadays most applications are carried out using Information Technology (IT). Through efficient electronic networking system such as Internet, people are able to communicate and interact actively and efficiently in terms of time. Through IT, learning and teaching is now done rather effectively via electronically.

This project discusses to provide an online evaluating on student via web page by developing a program/engine by using string similarity method in evaluating electronic answers on algebraic equations that are submitted by the students through online. These electronic answers are then evaluated against given solutions. In order to measure the accuracy of this study, a dice coefficient measuring approach is employed.

Dice coefficient  $\geq 0.8600$  (86% matched) is accepted as correct answers. By developing a template in each module will help lecturer to editing data in the database. This implies that this study implicates a range of feasibility in electronic grading system.

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# **CHAPTER I**

## **INTRODUCTION**

### **1.1 Background**

Electronic Grading is an electronic application that use for marking and matching method. It is use to match an answer submitted with the solution given in order to evaluate and give grade in online service. Using string similarity measure as a matching method and dice coefficient to measure the accuracy of the answer, any information that been submitted will be evaluate it's query or degree of similarities with the solution provided.

### **1.2 Objective**

The objectives of the project are:

- a) To develop an online evaluation that is used to handle linear equation.
- b) To develop an on-line evaluation using CAI method in giving grading
- c) To use internet as a tools in evaluating student
- d) To use data and result in experiment II from Mohd Zairol (2000) project to be use as data in this project.