

CHAPTER 1

INTRODUCTION

1.1 Background

Telephone numbers, modems, pulses are the main role in sending information through this SMS gateway. Often SMS is made only to communicate between people. Without realizing it, SMS can also be a medium for notification about lectures. Sometimes several students ask the same question, it makes the admin nervous to retype and reply with the same answer even though the question has been asked by several students before. The auto reply feature is very important because it prevents retyping and students can receive instant replies and correct answers.

Various methods are used by other authors but few use algorithms. This time the author uses the auto reply feature which is processed using the Cosine Similarity Algorithm so if several users ask the same thing, the admin can immediately send without having to retype and use the UAT method.

1.2 Problem Formulation

1. How to get student data and master data for sms gateway?
2. How to apply the Cosine Similarity algorithm to classify category on SMS announcement?
3. How to calculate the weights of TF-IDF data?
4. Can I only send SMS to a few students concerned?
5. Are you sure students to receive SMS replies?

1.3 Scope

This research is able to send messages and receive messages from users. This sms gateway research is able to send autoreplay to the user if the user asks according to the existing keywords. Using the Cosine Similarity algorithm as well and 100 questionnaire. Where this SMS announcement used Gammu as well. In this study, data were used from students of the University of the Faculty of Computer Science with a total of 500 data and also master data obtained from questionnaires distributed to students.

1.4 Objective

The first objective of this project is to classify incoming SMS from students by category so that the student can get a auto reply. Second is to get accuracy results is the student SMS included in the 1/2/3 category with a comparison of master and category data.

