

CHAPTER 1

INTRODUCTION

1.1 Background

Mobile phone is a telecommunications equipment that is now increasingly used and would continue to be developed. One of the services most frequently used mobile phone is SMS (*short message service*). Some real applications that many used SMS include: Mobile Banking, Notification Service, Email Internetworking, and so on. Use of SMS Gateway services simplify the management of the applications mentioned above. SMS Gateway can be constructed using a GSM-based mobile phone connected to the computer serving as a server, which inside have contained application program as the central control and management.

Each application usually has a respective program, so that if a service provider wants to create a different other applications it is necessary to program different SMS Gateway as needed. In addition to making spending increases costs, and of course also increased computer load for programs that are loaded also increased.

SMS gateway technology is increasingly widespread use for a variety of applications such as quiz, request or polling, to overcome all these problems, the need for a system that can solve these problems in one application so that the SMS administrator can easily management.

Based on the analysis usually every SMS Gateway application only for one program or one problem, if the user wants another program then the programmer must create a new program or change the code that already exists. Therefore the compiler will design an SMS Gateway application program that can be arranged

so that it can be used for a variety of different cases in one application and two different cellular providers.

1.2 Scope

Research conducted to obtain SMS Gateway really powerful certainly needed a long time with various problems faced now. Based on the identifier problem that has been obtained, the author will be focus on the problem as follows:

- Software use application kalkun operated through a Linux-based operating system and hardware the form of modem as GSM and user
- System *sms gateway* built, based on the technique *The request data-automatic Reply* as requested *user* automatically in response from *sms gateway* to user number,
- Translation of keys or strings can be entered is limited to two cellular phone providers using two modems.
- Save extra costs particularly in telecommunications with consumers.

1.3 Objective

The purpose of this thesis is marouses an SMS gateway processing system for build an application program or software to handle the kinds of cases in the form of quizzes, polls, or request for a small fee that is operated by a number of

the same server and then combined with two different modem provider, combined with a database for each process of delivery and acceptance.

