

ABSTRACT

Voting is a method for a group such as a meeting or an electorate to make a decision or express an opinion, this method is usually used in the end of the discussion session or debate. There are several objections in the election or voting, one of them is preparation in the voting process itself, which sometimes will cost in exceeded time and budget.

In these Final Assessment has developed a software that could holds all pure computer-based election's processes. In the other side, the performance of this software will also be observed in several condition parameters, such as traffic ratio, time ratio and also be observed the network security parameters terhadap reliability, security and confidentiality in the data transmission and data handling.

This software developed in the *Java 2 Standard Edition Development Kit 5.0* environment and *Oracle Database 10g*. These Java program is utilized with *Graphical User Interface* (GUI) in order to make users feel comfort on accessing. In the security section, *Java 2 Standard Edition* offers several security facilities, for example, cryptography, authentication dan authorization, public key infrastructure, and many more. These application will cuts the budget and time consuming whether in the small scale or wide scale voting or election process. But it's still keeps the basic principal of the election such as confidentiality, security, and also application's reliability, as the first rule to obeyed.

These voting system that developed in this research has very good reliability. It also has been tested to handle a big amount of the transaction. The security of the system also has been tested to face the intruder and attacker.