

## **ABSTRACT**

In modern times like now, there are many companies that use information technology. One of them is a company engaged in the Call Center, namely PT. Infomedia Nusantara, the server as a service provider on a computer network has an important role in the company, what else this company has ISO 9001 certificate because it has been recognized as having international standards. Among other things, having a license for Structured Query Language (SQL) and Operating System (OS) on the server as one of the quality assessments for the company. License prices are very expensive if the company has a very large server, it will charge the company at a very large cost.

In this Final Project a database server has been built by utilizing MariaDB's database management system (DBMS) and CentOS Linux OS based on open source that has been implemented in PT. Infomedia Nusantara.

The results of the measurement, functionality test and subjective test of this Final Project, it is known that the quality of database performance has met the needs of companies by testing 800 users error rate below 10% and from the results of the survey value of employees with a value of 4, the system proved to be eligible to be implemented and helped the company reduced the license fee on the server by 0% and still maintained the ISO 9001 standard at PT Infomedia Nusantara.

**Keywords:** MariaDB, Open Source, CentOS Linux, Database Server, ISO 9001