

## ABSTRACT

*Computer network is a media of information transformation which are evolving so rapidly, almost all institutions in the world using a computer network as the information transformation. But there are a few things to note in the use of computer networks namely traffic of information delivery from one host to another host. With the large number of hosts connected on every network, of course it causes problems in monitoring the traffic and monitoring the network connection. In terms of monitoring the network, many still uses the manual way such as ping from one host to another host.*

*To overcome these problems, in this final project were made a website based application for monitoring the traffic and monitoring the network connection. This application is made with the PHP programming language, python, javascript, MySQL for the database and the application has a few features. Among them, we can see the traffic of a network, and we can see the connected computer network connection. To run the network administrators simply add the location of the host and the host's ip address. It will automatically appear on GMAP in the application and can view information from its network connection or network traffic.*

*This final project aims to design and implement a website based network monitoring system so that it can give ease to administrators in monitoring the network that are their responsibilities. In this final project were conducted an experiment obtained 19.22653914/ms delay and jitter 15.86328186/ms which means the quality of the data traffic is good from standard ITU-T.*

***Keywords : monitoring traffic, website, jitter, delay, google maps***