*Network Analysis*

**Submitted To Mr. Da Peng Qu**

This Desktop App allows users to interact with network and get information of advance process without having to use a command prompt or terminal.

This app fulfills the basic capability of a network administration of a GUI:

* Network Status
* Management of wireless networks

The main page of this Desktop application asks the user to choose out of three very useful Network Commands, i.e. Ping, ipconfig, tracert. After that on the main page attached is a shell which is for users who have previous knowledge of shell commands So as to be able to have a Real-time Shell interaction without exiting the application.

The ping command has a single basic job that is to get information on if a specific IP address is working. The ping button takes the user to a window where the user is asked to enter the Hostname, which also refers to as the IP address of a certain server that the user might want to ping. This also means that special packet information is sent to that IP and then the system listens for a reply.

Knowing the machine and how it interacts with the internet has always been essential and for that, this application let its users to check their ip and adapter configurations, mac addresses and DNS all in just a click of a RUN button.

The number of hops to a certain ip comes in very handy when testing with routers and servers. This Application has its focus on letting its users to integrate how they would desire to trace to an ip and limit the number of hops using a slider which Is quite fancy for a GUI program.