Organization Name: Min. Of External Affairs

Problem Statement: A GUI based application which should show process ID and the connection which it is making, duly giving the location of each country. It should categorize display into commercial rootkits and others. The other rootkits may be shared with some standard repository like 'Virustotal.com' etc., to ascertain whether the process is malicious or safe. Accordingly, real-time white listing and blacklisting database may be built for users.

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Idea description/Solution :

- Our solution proposes a simple but robust application which is capable of providing network information, advance visual statistics, IP address review, with the help of open source tools, and cloud based GPU processing for network graph generation.

- There are already many opensource tools (like netstat, ss, Iftop, etc.) available which are capable of providing a plethora of network traffic information but most of them are Command Line tools or are very intricate and requires expertise to use.

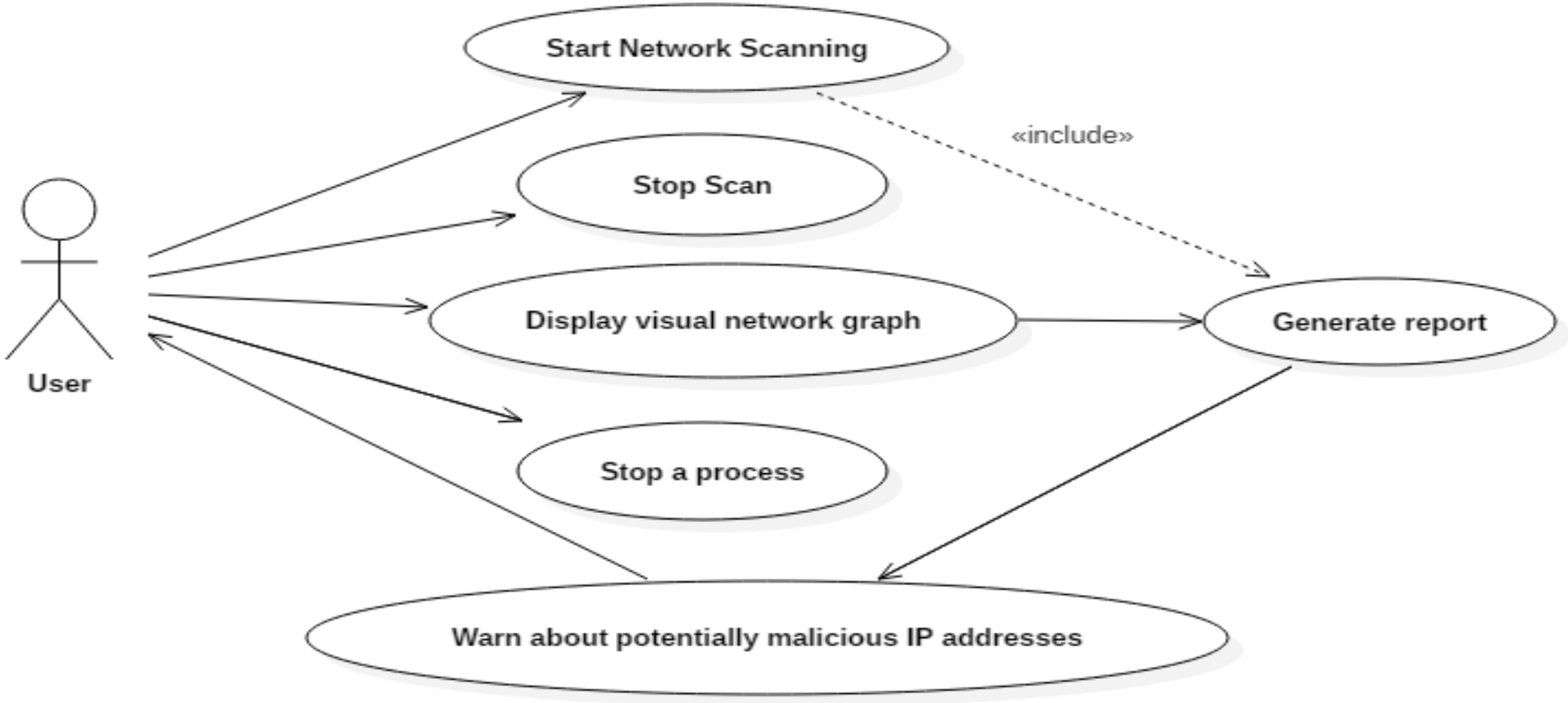
- Our solution leverage the power of this open source tools to extract all the necessary information (like Process ID, IP addresses, etc.) and display them in a User friendly GUI which is easy to use and comprehend .

- The other requirement of the problem statement of identifying malicious IP addresses is achieved by using the Google's Safe Browsing API.

- In addition to the above mentioned features, A visual representation of data, in the form of graphs, will be displayed helping us gain actionable insights.

Technology Stack:

Frontend	Backend	Languages
Bootstrap Tkinter(Python GUI library)	Nvidia Cloud GPU	Python



Dependencies:

Internet connection, Nvidia GPU Cloud (NGC).