

HKU SPACE & UNIVERSITY OF PLYMOUTH

BSc (Hons) Computer and Information Security

PRCO304HK Computing Project

Project Set Up

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Title: Develop a program for Detection and Deletion of Keyloggers in Computer System

A. Brief description

Keylogger, which is a surveillance software installed on a system to record the keystroke made on that system. As we know, key logger is a program that enable to monitor and records every activities of the computer user by their typing on specific keyboard of a computer or a mobile device. The software tracks or logs on the keys without the knowledge of the user. As the result, it may lead to a great threat to user to leak of the important data while they typing on the keypads. Most of the computer users are laymen users who will not realize the present of the Keylogger and its functions, also they will not have such behavior to remove the important Keylogger when they using of the computer. The threat is not only to retrieve the data, but also intercept passwords and other confidential information entered through the keyboards. The hackers could steal the PIN codes, bank account numbers, passwords to emails and social networking account credentials. The final results to the loss of the users' property and money from close relatives.

My project is plan to **design a computer program to detect the Keylogger** when the computer startup. The second aim of my project is **deletion the Keyloggers** after the detection. Although there have some paid or free anti-free keylogger program, but we don't know the program is safety or not if there is a back door of the program which will leading to lost the data security. During the designing and developing the program, I think it will make me completely to understand what the keylogger done and how to avoid it in stealing the data.

In my project, I would try to write up the software program by using the computer languages for Keylogger detection and deletion program. The **target OS** of my project would be **Microsoft Windows**. The reason of choosing Windows as my target OS because it is a very common OS which mostly used by computer users and me. The second reason is Windows

OS may easily attack by hackers by using Keyloggers when compare with other OS.

For the program languages in writing up the program, I would like to research the information first and decide upon the approval of the project.

As mentioned above, there are some paid or free anti-free Keyloggers program in the market, we did not know the level of safety. Thus the methods of my project may be 1) Develop a new Anti-Keylogger program or 2) Refine and amend the existing program for better functions. It may be confirmed once the project is approved and discussed with my supervisor after complete the research.

Risk Plan

For the main risk of the project, I believe it should be COVID-19 pandemic. As we are all suffering from the COVID-19 pandemic and Omicron now bringing HK to a 5th surge of the pandemic, “lockdown” became very common according to the situation changes. Therefore, it became the most concern if I or my supervisor need to admit hospital or quarantine camp (for almost 21 days in HK!), it may greatly affect the progress of the project. Therefore, the risk management should be “Do as much as I can” and “Do as fast as I can” to due with this unstable situation in HK. I hope I can complete my project on time and stay healthy all along.

The second risk for the project may be personal issue. The part-time study with unstable working schedule of my work may affect the discussion time and frequency with my supervisor, that may lead to the slow progress of the project.

In addition, I need to be aware of the laws and regulations related to the Keyloggers, especially the copyright of the Keyloggers’ detector writer and other stakeholders. Therefore, proper referencing of the origins would be addressed and it should be ethically emphasized that the purpose of the project is to enhance the knowledge towards Keyloggers and cyber security issues, but not for commercial used.

B. Keywords

Keylogger/ Keystroking/ Anti-Keylogger / Capture/ Malicious/ Spyware/ Data leakage

Remove or delete Keylogger