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Roll: 206

Topic: Keylogger

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1.1 Introduction

Key logging program also known as **Keyloggers** is a kind of malware that has capability to maliciously track input of the user from the keyboard in aim to retrieve private information. Keyloggers thus cause a major threat to business and personal activities of kind like transactions, online banking, email and chat. The keyboard is the prime target as it allows keyloggers to retrieve user input to the system as it is the most common way user interacts with a computer. There are two types of keyloggers that exists in market, a software keylogger and a hardware keylogger among which software keylogger are widely used and are easy to plant and cause substantial damage.

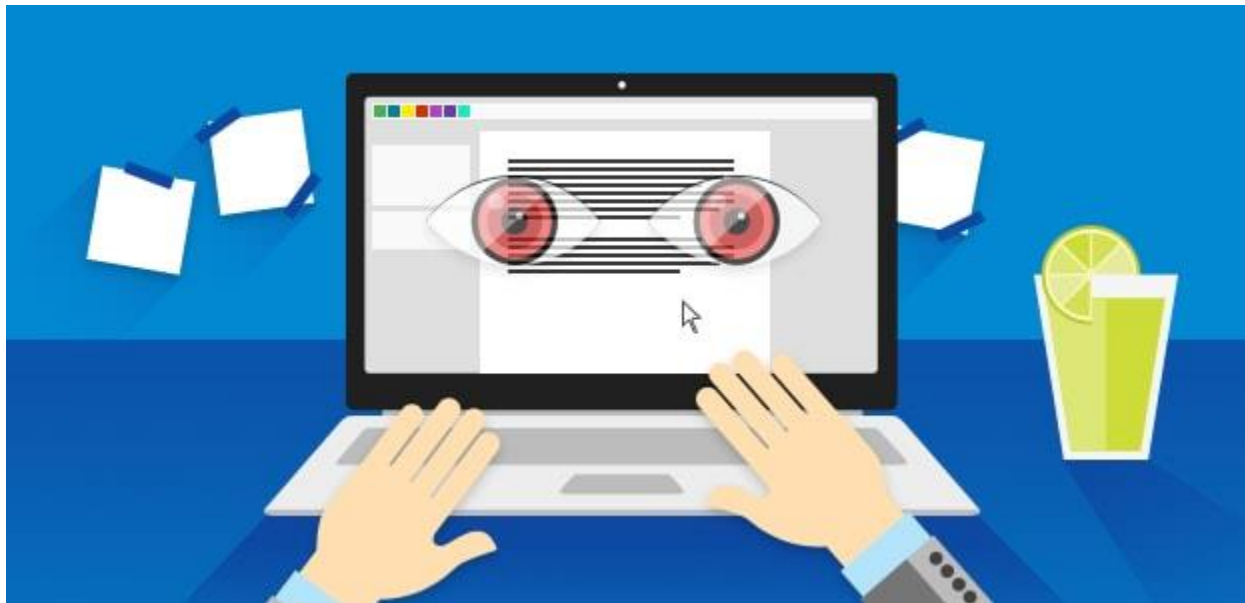
Keyloggers essentially performs two tasks that is guiding into client input stream to get keystrokes and moving the information to a distant area.

1.2 What is keylogger?

Short for *keystroke logger*, a keylogger is monitoring software or hardware designed to record what you write. It could be either a program on your computer or a small device connected to your PC and keyboard, which keeps track of everything you've been typing.

This allows hackers to steal valuable information like:

- your usernames and passwords
- your credit card number and verification code
- your entire chat history
- a list of the websites you've visited
- applications you've used
- documents you've opened
- screenshots of your activity



But keyloggers weren't originally intended for stealing personal data. In fact, monitoring software is legal and widely available online. Creepy and unsettling? You bet! Keyloggers are used by companies to check up on employees, by suspicious spouses looking to catch their partners cheating, and even by parents who want to know what their kids are up to.

1.3 Review:

To recognize keyloggers all the more conceivably, it is significant for an individual to get a handle on top to bottom information about what keyloggers really is, how they are implemented, and understand different approach to it. To response this kind of queries we will discuss about different kind of algorithm proposed so far to overcome the problem and also the drawbacks of those proposed system

Key logging is a security trading off procedure which should be possible from multiple points of view. When an attacker gain physical access to your computer devices they can wiretap the physical hardware like keyboard to collect the valuable data of the user. This strategy is totally reliant on some actual properties, either the sound transmission created when a client is composing or the electromagnetic spread of a remote console

A malicious programs having keystroke logging feature using an example of real-time online banking system. On the off chance that any of the capacities of the framework were erroneously actualized, they can conceivably give an assailant to get an admittance to a client's ledger. The loophole of this assaults may be removed without problems if the gadget continually ask for a completely new set of characters or alphabets whether or not login is a success. As the examination depend on individual positions and now not at the particular styles of character which are permitted inside the verification code, allowing codes to incorporate a more prominent

1.4 Existing System:

Hardware keyloggers is a physical device like USB sticks, a PS2 cable, or a wall charger which captures keystrokes of a user while they are logged into the system. Hence, hardware keyloggers can be installed only and only if an attacker gain physical access to the targeted system. In today's date when a person store all his important data in his system, he is wise enough not to give his system to anyone other than people he knows closely. Thus, implementation of a hardware keyloggers are really difficult.

2. System Requirement Specification

2.1 Aim

2.2 Requirement

2.3 Propose System

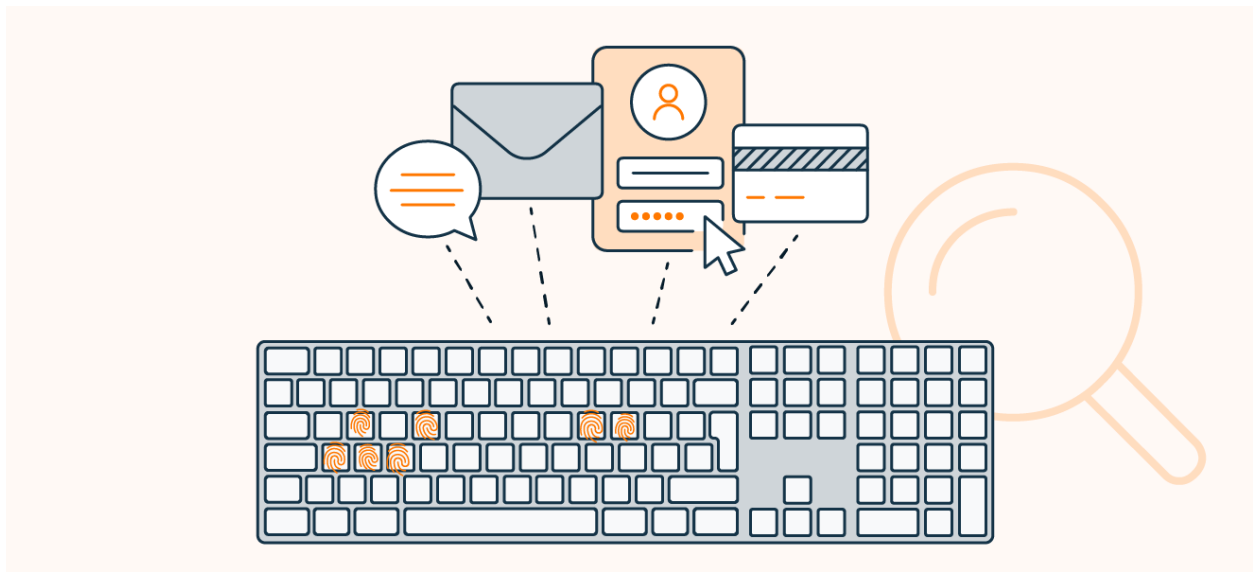
2.4 ASP.NET

2.5 Client Side

2.1 Aim:

The goal , which I belive I have reached, was to develop a keylogger based makware project that is fast,simple,and accurate.

Keyloggers are a type of monitoring software designed to record keystrokes made by a user. One of the oldest forms of cyber threat, these keystroke loggers record the information you type into a website or application and send to back to a third party.



2.2 Requirements:

Hardware Requirements:

1. Pentium Class or higher Processor
2. Minimum 64 MB RAM
3. 20 MB Free Disk Space

Software Requirements:

1. Windows XP/Vista/7/8/10
2. Visual studio 2013 /C#

2.3 Propose System:

The solution to the above existing problem is that we can build a software keyloggers instead of hardware keyloggers. The proposed model provides the solution that reduces the difficulties while installing the keylogger in the target system. Since, software keylogger can be installed remotely and does not need any physical access of the target system.

Proposed software is efficient enough to get installed in targeted system by itself when the user for example clicks the malicious link sent to him through mail or any social media and finally captures all the keystrokes of the user while he is logged into the system, saves the logs in a folder or sends the log directly to the mail address of the third party.



ASP.NET

ASP.NET is a unified web development model integrated with .NET framework, designed to provide services to create dynamic web applications and web services. It is built on the Common Language Runtime (CLR) of the .NET framework and includes those benefits like multi- language interoperability, type safety, garbage collection and inheritance.

Client side

Client-side refers to a specific part of client/server architecture, which is a network structure distinguishing clients or computers ordering information from servers, hardware pieces that deliver that information and process requests. In a traditional client/server structure, clients consist of physical personal computers or desktop computer stations. These use web browsers or other connections to make demands on servers. In this kind of structure, if something is client-side, that means it's run in the workstations or computers that represent clients.

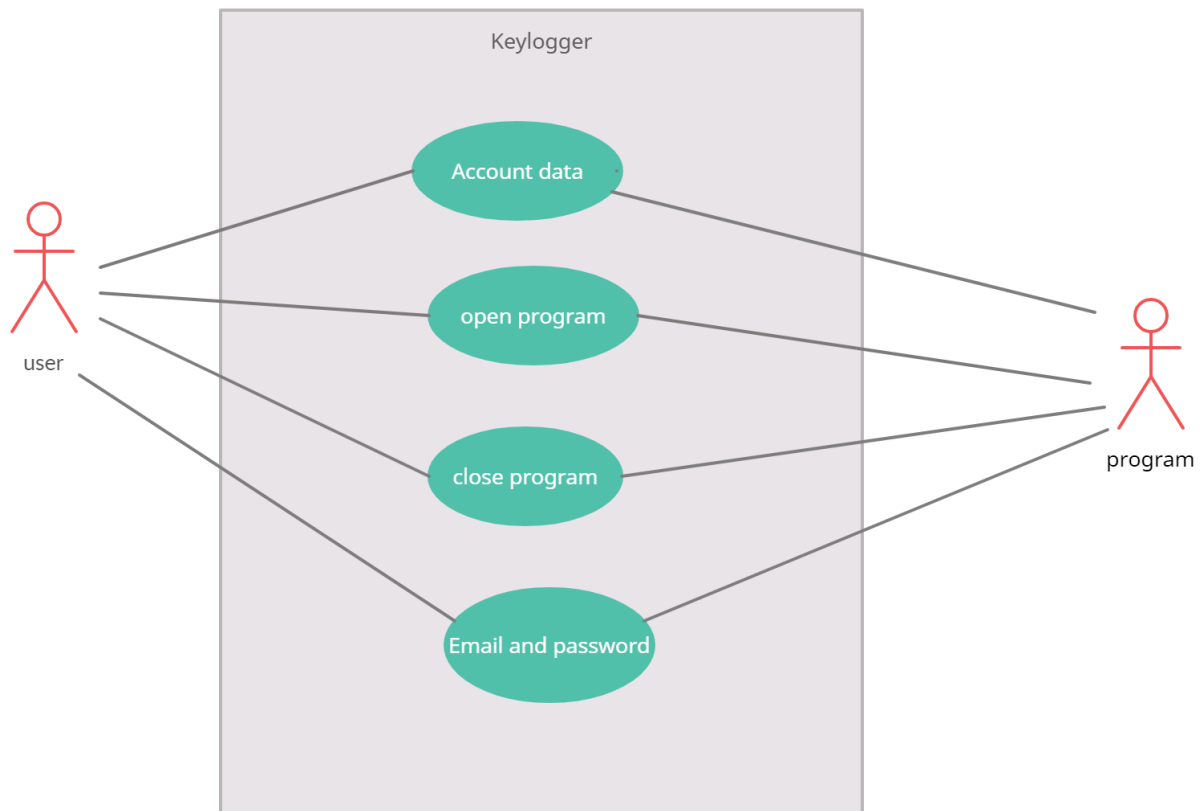
3 Requirement Analysis

3.1 Use case

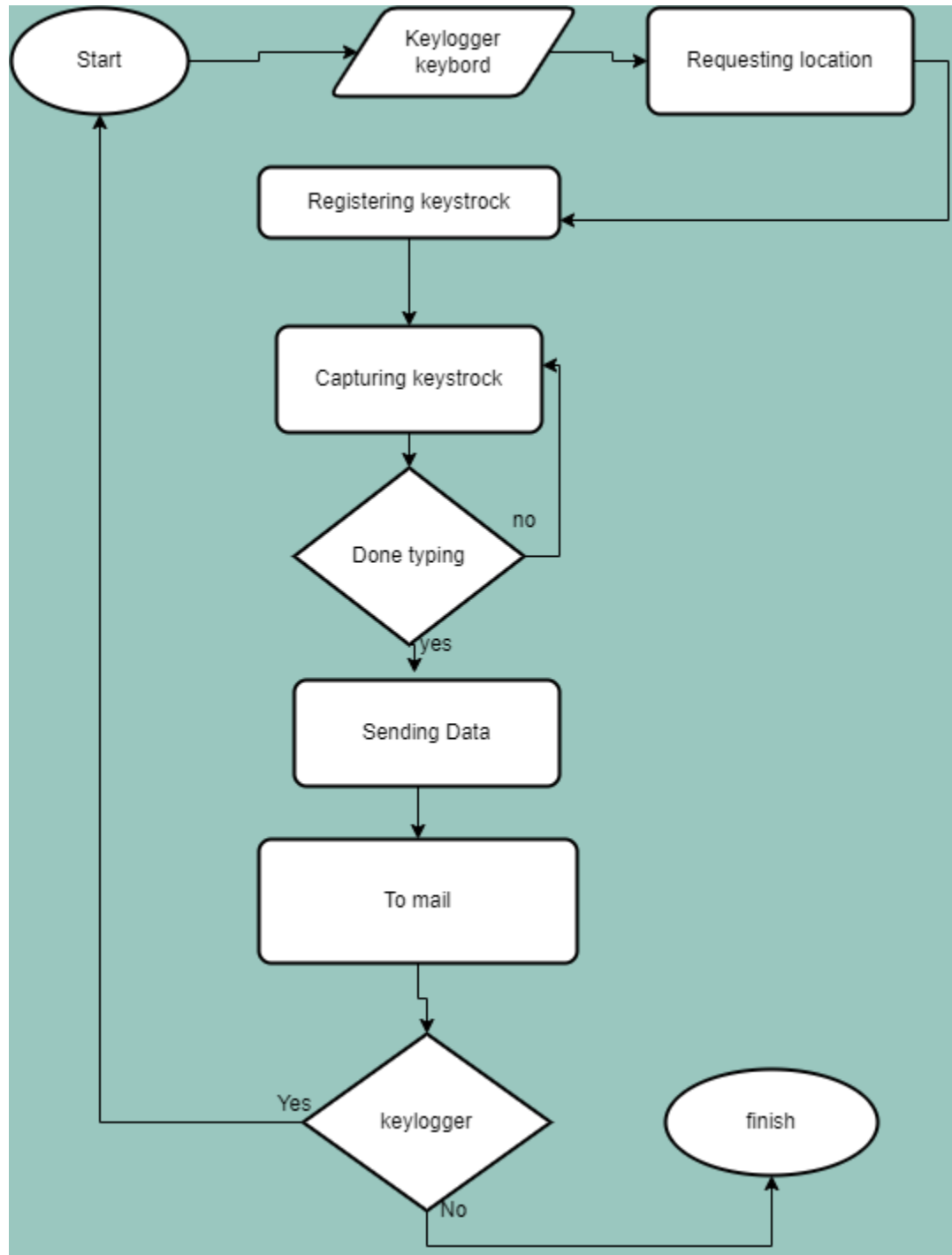
3.2 flow chart

3.3 class diagram

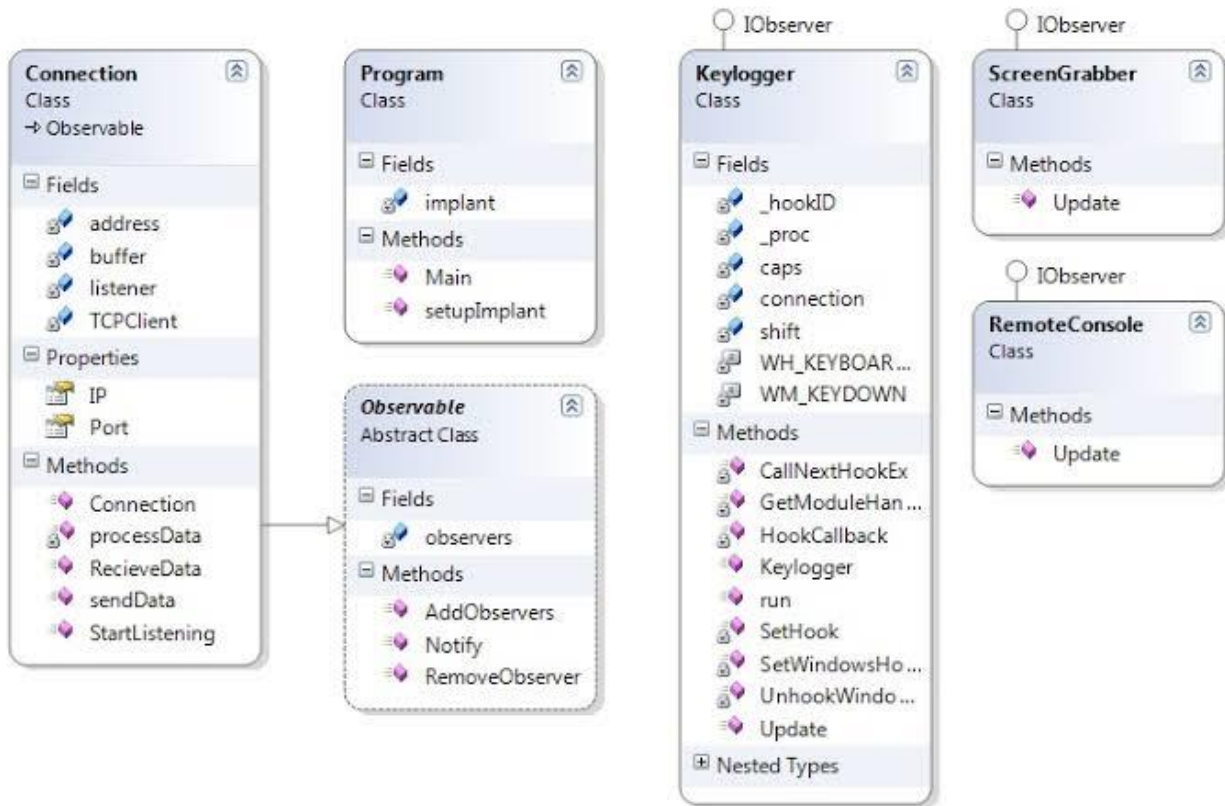
3.1 USE CASE



3.2 Flow Diagram



3.3 Class Diagram



4 Feasibility Study

4.4 Feasibility Study

4.5 Technical

4.6 Economic

4.1 FEASIBILITY STUDY

Preliminary investigation examines project feasibility; the likelihood the system will be useful to organization. The main objective of the feasibility study is to test the technical operation and economic feasibility for adding new modules and debugging old running systems. All Systems are feasible if they are given unlimited resources and infinite time

Currently, people use mobile devices as a part of their lives. This leads to the risk of data leaking or stealing. Due to the security issue, there are, many studies try to increase security in these devices.

The authentication process was bringing to the device with hope that it will prevent users from the security's risk. Since the technology is developing fast, a new kind of risk comes to users without doubt. This study proposed a new study of feasibility to use keystroke dynamics on touch screen devices

4.2 TECHNICAL

The Technical issue usually raised during the feasibility stage of the investigation includes the following

- Does the necessary technology exist to do what is suggested?
- Do the proposal equipment's have the technical capacity to hold the data required to use the new system
- Will the proposed system provide adequate response to inquiries, regardless of the number or location of the users?
- Can the system be upgraded if developed?

Are there technical guarantees of accuracy, reliability, ease of access and data security?

4.3 ECONOMIC

The economic feasibility is carried out to know the financial viability of the project in terms of the amount of investment in the system and the output expected. It also includes the cost involved at the time of development of the system as well as future cost in terms of maintenance and other miscellaneous expenditure