

Project Name: Ethical Hacking Key Logging

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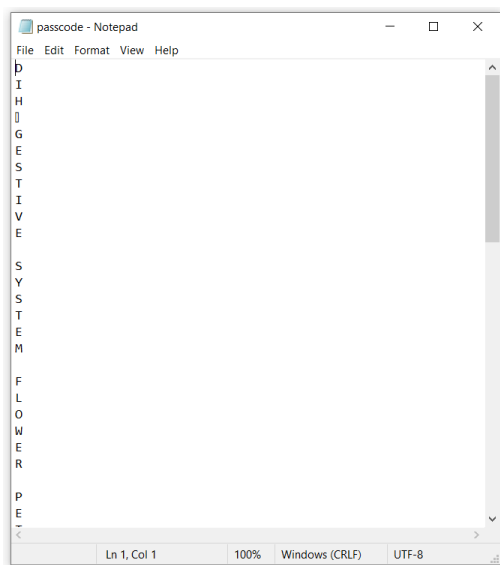
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Overview

This is a Keylogging which helped to watch over illegal activities if done.

This repository contains the code for Key Logging using python's various libraries.

It used pyHook, sys, logging and pythoncom libraries.

These libraries help to perform individually one particular functionality.

pyHook acts as a python wrapper for out-of-context input hooks in Windows.

sys means system-specific parameters and functions.

logging module defines functions and classes which implement a flexible event logging system for applications.

The purpose of creating this repository is to get hands on with EH and Python.

These python libraries raised knowledge in discovering these libraries with practical use of it.

It leads to grow in my EH subject knowledge combined with python.

Motivation

The reason behind making Keylogging is, I have studied EH in my Master Degree as one of the subjects and since I am building my python skills so I wanted to try combination of it. This gave me thoroughly practical approach to my subject knowledge. One more reason is that EH is also flourishing field and it interests me as well so wish to create mini project on the same. It is also useful for many parents whose kids are younger and can prevent them from watching unethical content for their age. This is especially more applicable in today's world as children do not wish to disclose what type of content they watch regularly. It is also applicable to watch over employees in organizations as many IT companies already did it in lockdown.

Technical Aspect

pyHook package provides callbacks for global mouse and keyboard events in Windows. It wraps the low-level mouse and keyboard hooks in the Windows Hooking API for use in Python applications.

sys module provides access to some variables used by interpreter and to functions that interact strongly with the interpreter. Import sys loads the module named sys into the current namespace so that you can access the functions and anything else defined within the module using the module name. One of the most common items is the list of arguments created when the program was called. sys module provides information about constants, functions and methods of the python interpreter.

The key benefit of having logging API provided by a standard library module is that all python modules can participate in logging, so your application log can include your own messages integrated with messages from third-party modules. These modules provide flexible framework for emitting log messages. It is a standard library, provides a way for applications to configure different log handlers and a way of routing log messages to these handlers.

pythoncom means to use COM object from python.

Installation

Using intel core i5 9th generation with NVIDIA GFORCE GTX1650.

Windows 10 Environment Used.

Already Installed Anaconda Navigator for Python 3.x

The Code is written in Python 3.8.

If you don't have Python installed then please install Anaconda Navigator from its official site.

If you are using a lower version of Python you can upgrade using the pip package, ensuring you have the latest version of pip, *python -m pip install --upgrade pip and press Enter.*

Run/How to Use/Steps

Keep your internet connection on while running or accessing files and throughout too.
Follow this when you want to perform from scratch.

Open Anaconda Prompt, Perform the following steps:

Creating Virtual Environment named "EH". You can give any name of your choice.

```
conda create -n EH python=3.7
```

```
y
```

```
conda activate EH
```

```
pip install <.whl path> [same as your python version]
```

```
pip install pyHook-1.5.1-cp37-cp37m-win_amd64.whl
```

```
pip install -U pywin32
```

```
cd <PATH>
```

You can also create requirement.txt file as, `pip freeze > requirements.txt`

run files

```
conda deactivate
```

Creating Virtual Environment is necessary so that you do not have to install packages every-time you run the code. Once all required packages are installed in virtual environment then you only need to access/open the virtual environment and run the final file.

Follow this when you want to just perform on local machine.

Download ZIP File.

Right-Click on ZIP file in download section and select Extract file option, which will unzip file.

Move unzip folder to desired folder/location be it D drive or desktop etc.

Open Anaconda Prompt, write `cd <PATH>` and press Enter.

eg: `cd C:\Users\Monica\Desktop\Projects\Python Projects 1\3)EHProjects\EH_Keylogging`

Now, open virtual environment that you have created ie

```
conda activate EH
```

In Anaconda Prompt, `pip install -r requirements.txt` to install all packages.

In Anaconda Prompt, write `python <filename>.py` and press Enter. That is,

In Anaconda Prompt, write `python key1.py` and press Enter.

It will create passcode.txt file as output in same working directory.

After running file, each key that you press will get recorded in txt file.

Convert batch file to txt file by changing its extension and making changes as your path.

Please be careful with spellings or numbers while typing filename and easier is just copy filename and then run it to avoid any silly errors.

You can also run all codes from Command Prompt instead of Anaconda Prompt after setting Environmental Variable Path Settings.

Note: I have created EH virtual environment and used for more than one project and therefore you might see more than one unused library in requirements.txt especially for this project so do not worry because I am using them in another project under similar virtual

environment. Whenever you get No Module <name of package> Error then see its PyPI Documentation and Install it using pip install <package-name> written there. In some cases, you need to install its .whl file which I will inform you if its necessary. Here, in this project you need to install .whl file for particular library as per your virtual environment version and computer architecture version.

Please be careful with spellings or numbers while typing filename and easier is just copy filename and then run it to avoid any silly errors.

Note: cd <PATH>

[Go to Folder where file is. Select the path from top and right-click and select copy option and paste it next to cd one space <path> and press enter, then you can access all files of that folder] [cd means change directory]

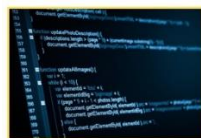
Directory Tree/Structure of Project

Folder: EHProjects>EH_Keylogging
Key1.py

To Do/Future Scope

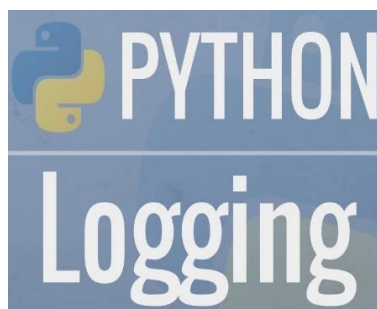
Can add encryption feature.

Technologies Used/System Requirement/Tech Stack



The Python Standard Library

the Sys module



Credits

MEH Channel