**Department of \_Computer Science and Engineering**

**MIT SCHOOL OF COMPUTING**

**MIT ADT University, Loni Kalbhor, Pune**

**Instructions for B.Tech. Project Report Writing**

* Project Report should include necessary certificates, acknowledgment, tables, list of diagrams, abstract, annexure (i.e., Paper), index.(pages from 60 to 90)
* If particular part is repeated, you can mention “Refer Page No. and point” or “Refer Annex
* Prepare at least **n + 2 Project Report** copies of your manuscripts for student, Guide, Department, University/Library. Submit soft copy in CD.
* Acknowledgment, List of Publications, List of Diagrams, List of Tables, Abstract should have page nos I, II, III, IV respectively.
* Always place the images/Diagrams/Table at the beginning or end of the page.
* The footer “**MITSOC, Department of Computer Engineering <year YYYY>**” should be included. (10, Times Roman, Center justified) from Introduction page
* Main part of manuscripts should be **Times Roman, 12 pts, justified** and **1.5 line spacing**(Should be Printed on both side of paper)
* Use paper size **8.5” x 11”** or **A4** (210 x 197 mm). Follow following margins.

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| **Margin** | **Paper A4** | **Margin** | **Paper A4** |
| Top | 1” | Bottom | 1 |
| Left | 1.25 | Right | 1 “ |

All paragraphs will be single **line spaced** with a 1.5 line **space** between each paragraph. Each paragraph will begin with a **two-space indentation.**

* Chapter **titles** should be **bold** with **18 pt** typed in all **CAPITALS** letters and should be aligning at the **center** of the page.
* **Section heading** should be aligning at the **left** with **12 pt** and **bold** and **capitalized**.
* Section **subheading** should be aligning at the **left** with **title case.**
* Leave **one** spaces between section heading and **10 pt** space between two-section subheadings.
* References should be in IEEE format, in the order as they **appear in the dissertation**.
* Symbols and notations if any should be included in nomenclature section only.
* All chapters, section heading and sub headings should be numbered. For chapter use numbers 1,2,3 and for sub headings 1.1, 1.2, 1.3. And section subheadings 2.1.1, 2.1.2 etc.

The text should be typed on both side of the paper.

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**(Computer Science & Engineering)**

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**BY**

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Candidate Name PRN/ Enrollment No: -----

*(Two blank spaces)*

**Under the guidance of**

*(One blank spaces)*

(14/bold, upper case)

Prof/Dr/……………

*(one blank spaces)*



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

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**MIT School OF COMPUTING**

**MIT Art, Design and Technology University**

**Rajbaug Campus, Loni-Kalbhor, Pune 412201**

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**20\_\_- \_\_**

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RAJBAUG CAMPUS, LONI-KALBHOR, PUNE 412201

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We, the team members

|  |  |
| --- | --- |
| Name | Enrollment No |
| SOURABH KARMAKAR | (MITU22BTCS0851) |
| DURGESH BORSE | (MITU22BTCS0281) |
| HIMANSHU MODEKAR | (MITU22BTCS0330) |

Hereby declare that the project work incorporated in the present project entitled **“Keylogger”** is original work. This work (in part or in full) has not been submitted to any University for the award or a Degree or a Diploma. We have properly acknowledged the material collected from secondary sources wherever required. We solely own the responsibility for the originality of the entire content.

Date: 19/07/2021

Name & Signature of the Team Members

SOURABH KARMAKAR: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

HIMANSHU MODEKAR: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DURGESH BORSE : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

MIT SCHOOL OF COMPUTING,

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**EXAMINER’S APPROVAL CERTIFICATE**

The project report entitled “KEYLOGGER” submitted by SOURABH KARMAKAR(MITU22BTCS0851), DURGESH BORSE (MITU22BTCS0281), HIMANSHU MODEKAR (MITUBTCS0330) in partial fulfillment for the award of the degree of Bachelor of Technology (Computer Science & Engineering) during the academic year 2023-24, of MIT-ADT University, MIT School OF COMPUTING, Pune, is hereby approved.

**Examiners:**

**1.**

**2.**

**ACKNOWLEDGEMENT**

We express our humble gratitude to Dr. C. Muthamizhchelvan, Vice Chancellor (I/C), SRM Institute of Science and Technology, for the facilities extended for the project work and his continued support. We extend our sincere thanks to Dr. Revathi Venkataraman, Professor & Chairperson, School of Computing, SRM Institute of Science and Technology, for her invaluable support. We wish to thank Dr. M. Lakshmi, Professor & Head, Department of Data Science and Business Systems, SRM Institute of Science and Technology, for her valuable suggestions and encouragement throughout the period of the project work. We are extremely grateful to our Academic Advisor Dr. E. Sasikala, Assistant Professor, Department of Data Science and Business Systems, SRM Institute of Science and Technology, for her great support at all the stages of project work. We register our immeasurable thanks to our Faculty Advisor, Dr. J. Shobana, Assistant Professor, Department of Data Science and Business Systems, SRM Institute of Science and Technology, for leading and helping us to complete our course. Our inexpressible respect and thanks to our guide, Dr. Jeba Sonia, Assistant Professor, Department of Data Science and Business Systems, SRM Institute of Science and Technology, for providing me an opportunity to pursue my project under her mentorship. She provided me the freedom and support to explore the research topics of my interest. Her passion for solving real problems and making a difference in the world has always been inspiring. We sincerely thank the staff and students of the Data Science and Business Systems, SRM Institute of Science and Technology, for their help during my research. Finally, we would like to thank my parents, our family members and our friends for their unconditional love, constant support and encouragement.

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**SOURABH KARMAKAR (MITU22BTCS0851)**

**DURGESH BORSE (MITU22BTCS0281)**

**HIMANSHU MODUKER (MITU22BTCS0330)**

**ABSTRACT**

Keyloggers is the action of recording the key stroke on a keyboard, typically in a covert manner. Software Keyloggers are detected based on behavioral characteristics. They don't provide root privileges; detection is based on permission from kernel and prone to many attacks. Software Keyloggers is a software program that can be installed onto a computer, which monitors all the user activities on the computer. Keyloggers steal confidential information and they completely run in stealth mode. When Keyloggers is installed in a computer, it is not shown either in start-up icons or anywhere else on the computer that is being monitored. Software Keyloggers have posed a great threat to user privacy and security. Detection of Keyloggers is difficult because they run in hidden mode. Detection of Software Keyloggers is done using various techniques namely Anti-Hook techniques, HoneyID: Spyware detection, bot detection, safe access to password protected accounts and dendritic cell algorithm. These algorithms are used to detect the existence of Keyloggers in computers, which strengthens user privacy and security

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# CHAPTER 1 INTRODUCTION

## INTRODUCTION

1. A keylogger is programming or equipment that catches and tracks what people type on their console. You might
2. have utilized a PC with keystroke logging programming introduced for observing and guaranteeing protected or
3. approved use.
4. Nonetheless, normal clients' impression of keylogging varies essentially from cybercriminals' insights. Vindictive
5. entertainers can utilize them to take your own and monetary data, as well as PIN codes and record numbers,
6. Mastercard numbers, usernames, passwords, and other delicate data, which can all be utilized to direct
7. misrepresentation or fraud.

## A keylogger is programming or equipment that catches and tracks what people type on their console. You might have utilized a PC with keystroke logging programming introduced for observing and guaranteeing protected or approved use. Nonetheless, normal clients' impression of keylogging varies essentially from cybercriminals' insights. Vindictive entertainers can utilize them to take your own and monetary data, as well as PIN codes and record numbers, Mastercard numbers, usernames, passwords, and other delicate data, which can all be utilized to direct misrepresentation or fraud.

## Keyloggers are often used for various purposes, ranging from legitimate ones like monitoring children's internet activity or employee computer usage to malicious ones such as stealing personal information, login credentials, or financial data for illicit purposes.

## There are two main types of keyloggers: software-based and hardware-based. Software keyloggers are programs installed on a computer or device, often disguised as legitimate software, and run in the background without the user's awareness. Hardware keyloggers are physical devices that are inserted between the keyboard and the computer, intercepting keystrokes before they reach the computer's operating system.

## While keyloggers can serve legitimate purposes in certain contexts, they also pose significant privacy and security risks when used maliciously. As such, their development, distribution, and use are subject to legal restrictions in many jurisdictions.

### 1.1 PURPOSE:

1. The individual or association utilizing the keylogger should agree with the accompanying lawful prerequisites:
2. • There is no unlawful utilization of information included.
3. • Be the item's proprietor, producer, or lawful watchman assuming the item is being utilized by a young
4. person.
5. • Use it as per the laws of their separate ward.
6. • This rundown perceptibly needs assent. Clients of keyloggers are not expected to get assent except if
7. neighborhood regulations urge it. The fact that they are being watched makes this is clearly dishonest in
8. circumstances where individuals uninformed.
9. You might acknowledge keystroke logging under clear language regarding administration or an agreement in
10. assented cases. This incorporates clicking "acknowledge" to utilize public Wi-Fi or marking an agreement with a
11. business

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You might acknowledge keystroke logging under clear language regarding administration or an agreement in assented cases. This incorporates clicking "acknowledge" to utilize public Wi-Fi or marking an agreement with a business.

Keyloggers are ordinarily utilized for the accompanying legitimate purposes:

• IT investigating is the most common way of social occasion data about client issues and precisely settling

them.

• Client input is accumulated and merchandise are worked on in PC item improvement.

• Unapproved client conduct on web servers is observed by business servers.

• Representative observing — to guarantee that organization property is utilized securely consistently

• IT investigating is the most common way of social occasion data about client issues and precisely settling

them.

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* Unapproved client conduct on web servers is observed by business servers.
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Legitimate keyloggers might be more pervasive in your day-to-day existence than you understand. Assuming the observing party has requested admittance, you as a rule have the ability to control your information. If you would rather not utilize the keyloggers beyond work, you can just deny their approval.

**• Programming Environment:**

1. Python 3.8.0

2. Jupyter notebook

**• Program Files Used:**

1. Build.ipynb

2. Core.ipynb

3. Output.ipynb

4. Sniffer.ipynb

**• Document Conventions**

➢ Entire document should be justified.

➢ Convention for Main title

• Font face: Times New Roman

• Font style: Bold

• Font Size: 14

➢ Convention for Sub title

• Font face: Times New Roman

• Font style: Bold

• Font Size: 12

➢ Convention for body

• Font face: Times New Roman

• Font Size: 12

## 1.2 Scope of Developing The Project

## With other malware, there are usually clear signs of infection. These indications can be as small as excessive notifications and pop-ups on the user’s screen, or as large as full denial of access to the device.

## Keyloggers can be significantly more dangerous since they are usually difficult for the user to detect. Keyloggers can capture screenshots, log personal data, and collect any information the user types — in complete silence. This means users are often unaware of the problem and take no action to solve it. For businesses that don’t have large and dedicated cybersecurity teams to constantly monitor device security, such compromises can have an outsized effect over time, even more so if the devices used by employees are unmanaged.

## 1.3 Objectives

The main objective of keyloggers is to interfere in the chain of events that happen

when a key is pressed and when the data is displayed on the monitor as a result of a

keystroke.

## 1.4 Scope

**1.Parental Control:** Keyloggers can be used by parents to monitor their children's online activities and ensure they are not engaging in inappropriate behavior or interacting with potentially dangerous individuals.

**2.Employee Monitoring:** In corporate settings, keyloggers may be deployed by employers to monitor employee productivity, ensure compliance with company policies, and protect sensitive information from being leaked.

**3.Security Testing:** Ethical hackers and security professionals may use keyloggers as part of penetration testing or security audits to identify vulnerabilities in computer systems and networks.

**4.Law Enforcement:** Keyloggers can be used by law enforcement agencies as part of criminal investigations to gather evidence related to cybercrimes, such as hacking, identity theft, or fraud.

**5.Personal Use:** Some individuals may use keyloggers to keep track of their own keystrokes for personal productivity or record-keeping purposes.

# 

# CHAPTER 2 PROBLEM IDENTIFICATION

## Keyloggers are a genuine danger to clients and the clients' information,which is considered exploitative movement. The problem statement keyloggers is difficult without the knowledge of the owner of the system.

## 2.1 Problem Function

## A keylogger is a technology that tracks and records consecutive key strokes on a keyboard. Because sensitive information such as usernames and passwords are often entered on a keyboard, a keylogger can be a very dangerous technology. Keyloggers are often part of malware, spyware or an external virus. 2. 2 Operating Environment

1. The product will be operating in windows, Linux environment. The hardware
2. configuration include Hard Disk: 40 GB, Monitor: 15” Color monitor, Keyboard: 122
3. keys. The basic input devices required are keyboard, mouse and output devices are
4. monitor, mobile devices etc

## The product will be operating in windows, Linux environment. The hardware configuration include Hard Disk: 40 GB, Monitor: 15” Color monitor, Keyboard: 122 keys. The basic input devices required are keyboard, mouse and output devices are monitor, mobile devices etc.

## 2. 3 Features

## 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

**Figure STYLEREF 1 \s 2. SEQ Figure \\* ARABIC \s 1 1: This is my First Figure**

**2.4 Modules used:**

The pynput library in Python enables the programmers to control and monitor

input devices. This library consists of sub-packages for each type of input device

supported:

1. mouse: This sub-package consists of the classes to control and monitor a mouse or trackpad.
2. keyboard: This sub-package consists of the classes to control and monitor the keyboard.

In order to install the Python library, we need 'pip', a framework to maintain

packages required to install the modules from the trusted public repositories. Once

we have 'pip', we can install the pynput library using the command from a

command prompt (CMD) or terminal as shown below:

Syntax:

1. $ pip install pynput
2. All the modules mentioned previously are automatically imported into the pynput package. We can use any of them by simply importing them from the main package. Once the pynput package is installed, we can verify it by creating an empty Python program file and writing an import statement

**CHAPTER 3 CODE IMPLEMENTATION AND TESTING**

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# CHAPTER 4 SOFTWARE REQUIREMENT SPECIFICATION

## 5.1 Project scope

## 5.2 Software Requirement

1. Windows 7 or higher
2. • PHP
3. • Google Chrome Browser
4. • MYSQL
5. • XAMPP Server
6. • Sublime Text / Jupyter Notebook

• Windows 7 or higher

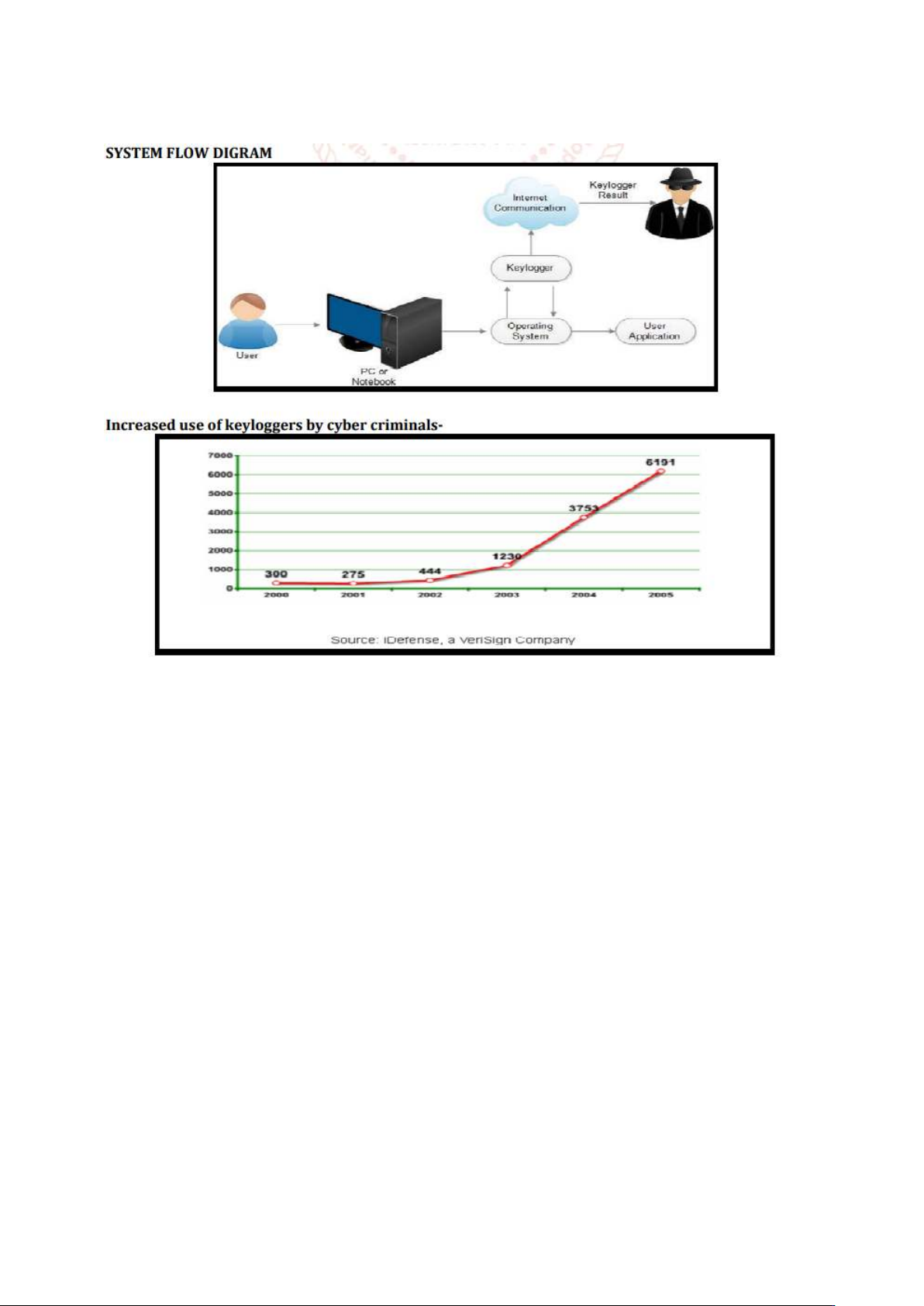
• PHP

• Google Chrome Browser

• MYSQL

• XAMPP Server

• Sublime Text / Jupyter Notebook



# CHAPTER 5 CONCLUSION AND FUTURE WORK

The product can play out the proposed work like a fundamental keylogger does to get all secret data from client of the framework by getting their keystrokes occasions and mouse clicks without the information on the client. So client of the framework is ignorant of things occurring in foundation. The software is able to monitor data and store the data in a specific folder or send the data to the owner’s mail id. The software is also able to hide itself from the owner if the system while it runs in background. Thus, I accept that my methodology extensively increases current standards for observing the information and gathering it for either lawful or unlawful reason.

# CHAPTER 6 BIBLIOGRAPHY

Bibliography: For the all the knowledge and experience that we gained while doing this project, we Navneet Chandra, Shubham Pandey, Himanshu Thakur, Anmol Khandelwal would like to thank our project guide Dr. Jeba Sonia for her support and help during the semester period.

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