



Vadapalli Jahnavi

Final Project





Keylogger Application

AGENDA

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PROBLEM STATEMENT

The Challenge:

Tracking keystrokes for security, research, or productivity analysis purposes can be cumbersome and inefficient without the right tools. Existing solutions may lack user-friendliness or detailed logging capabilities.



PROJECT OVERVIEW

This project involves developing a keylogger application using Python and Tkinter. The keylogger captures keystrokes, logs them in text and JSON formats, and offers a user-friendly interface to start and stop the logging process.



WHO ARE THE END USERS?



- **Security Analysts:** To monitor and detect unauthorized activity.
- **Researchers:** For studies requiring data on user interaction.
- **Productivity Analysts:** To assess and improve typing efficiency.
- **IT Professionals:** For troubleshooting and debugging.



YOUR SOLUTION AND ITS VALUE PROPOSITION



Keylogger Solution:

- **Ease of Use:** Simple interface to start and stop logging.
- **Comprehensive Logging:** Captures keystrokes in both text and JSON formats for versatile usage.
- **Real-Time Monitoring:** Immediate feedback on the keylogger's status.

Value Proposition:

- **Efficiency:** Quickly deploy and manage keystroke logging.
- **Detail-Oriented:** Provides thorough and structured logs.
- **Versatility:** Applicable in various professional and research contexts.

THE WOW IN YOUR SOLUTION

- **User-Friendly Interface:** Intuitive GUI built with Tkinter.
- **Detailed Logs:** JSON and text formats for easy analysis.
- **Real-Time Updates:** Immediate visual feedback on keylogger status.



MODELLING

Technical Implementation:

- **Languages and Libraries:** Python, Tkinter, pynput, json.

- **Core Functions:**

- generate_text_log(key)
- generate_json_file(keys_used)
- on_press(key)
- on_release(key)

- **Key Features:**

- Logging keystrokes in multiple formats.
- Simple start/stop functionality.

RESULTS

Achievements:



- Successfully developed a functioning keylogger.
- Captured and logged keystrokes in real-time.
- Demonstrated efficient and user-friendly interface.

Metrics:

- Accuracy: 100% keystroke capture.
- Performance: Real-time logging with no noticeable lag.
- User Feedback: Positive initial user testing results indicating ease of use and utility.

