KeystrokeAnalyser - Project Report

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Project: KeystrokeAnalyser with Unlimited Attempts and Screenshot Logging

# 1. Overview

This project implements a Python-based keylogger application named KeystrokeAnalyser which monitors and logs keystrokes, tracks incorrect password attempts, and takes screenshots after each failed login attempt. The application works on both Windows and Linux.

# 2. Features

- Global keystroke detection

- Unlimited password attempts (no stop after 3 fails)

- Screenshot capture on every wrong attempt

- Log saved with timestamp in keystroke\_log.txt

- Supports both Windows and Linux

# 3. Technology Stack

- Language: Python 3

- Libraries: pynput, pillow

- Executable Build Tool: PyInstaller

# 4. Folder Structure

The application creates the following structure on execution:

logs/  
├── keystroke\_log.txt # Logs of all typed entries and results  
└── screenshots/ # Screenshots of wrong attempts

# 5. How It Works

The script runs a global key listener using pynput. Every time the user presses Enter, the application evaluates the typed string as a password. If it is incorrect, a screenshot is captured and stored. All attempts are logged with timestamps. The app continues to run indefinitely until manually closed.

# 6. Deployment Steps

1. Install dependencies: `pip install pynput pillow`

2. To build .exe: `pyinstaller --onefile --noconsole keystrokeanalyser\_crossplatform.py`

3. Run the `.exe` or script to begin logging.

# 7. Legal Disclaimer

This tool is developed strictly for educational and ethical purposes. Unauthorized use or deployment without consent is illegal and punishable by law. Use responsibly.

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