Anti-Paste Guard — User Manual

Overview

Anti-Paste Guard is a desktop application designed to help instructors, exam proctors, and administrators ensure the authenticity of typed work by monitoring copy-paste activity and unusual text input behaviors. The system is privacy-conscious: it never records the actual text content, only event metadata (timing, counts, app focus). This allows reliable anomaly detection without exposing sensitive user data.

Getting Started

Launching the Application

- 1 Locate and open **AntiPasteGuard.exe** from the **dist/AntiPasteGuard/** folder (or use the provided installer).
- 2 The main window will appear, titled **Anti-Paste Guard**.
- 3 Click **Start Capture** to begin monitoring; the status bar will show *Capture: ON.*
- 4 Click **Stop Capture** to pause monitoring.

Main Window

Dashboard Components

- Event Feed: Displays real-time event summaries (keystrokes, paste events, anomalies).
- Anomaly List: Shows flagged behaviors with severity levels (HIGH, MEDIUM).
- Metrics Panel: Displays words per minute (WPM), characters per minute (CPM), and typing delay averages.
- Chart Panel: Timeline view of typing activity and anomalies.
- Export Button: Save event/anomaly data to CSV for review or audit.

Interpreting Anomalies

- Idle-to-Burst (HIGH): Long pause followed by sudden large paste suggests copy-paste.
- Multi-Paste Streak (MEDIUM): Several pastes close together suspicious repeated usage.
- Text Injection (HIGH): Large text appears without corresponding keystrokes possible Al/macro input.
- Uniform Typing (MEDIUM): Extremely regular typing intervals automation suspected.

Verifying Logs

Anti-Paste Guard stores events in a tamper-evident encrypted log. To verify logs:

- 1 In the dashboard, click Verify Database.
- 2 A report will open showing if all records are valid and untampered.
- 3 "OK" indicates verification success. Any failures will list errors and suggested fixes.

Security Notes

- Logs are encrypted and signed to prevent tampering.
- Clipboard monitoring only records metadata (length/type), never actual clipboard content.
- The application works offline; no cloud connection is required.

Best Practices

- Start the app before distributing exams or assignments.
- Run verification at the end of the session.
- Export CSV logs for record keeping.
- For sensitive environments, keep the master key file secure.

Troubleshooting

- **Dashboard not opening**: Use the packaged .exe or ensure Python/Tkinter runtime is available.
- Metrics not updating: Ensure capture is started (Start Capture).
- Verification errors: Try re-running verification; errors may indicate improper shutdown or missing master key.

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