



Transforming Industrial Safety with Vision Artificial Intelligence

USER MANUAL

Incident Viewer App for M-Series AI System

THIS APP HAS TWO CORE FUNCTIONAL PARTS

- **PART 1 - INCIDENT COPIER (Page 1)**

To copy the incidents from the M-Series AI system and store the encrypted near-miss data securely

- **PART 2 - INCIDENT VIEWER (Page 7)**

To decrypt and view the near-miss data

INCIDENT COPIER

PURPOSE:

Incident Copier allows users to select a date and securely copy near-miss data from the system to an external device like USB drive or external Hard Disk Drive. These images are encrypted to prevent unauthorized access, ensuring secure and private storage of camera footage.

It is designed to be:

- Simple to operate.
- Safe for non-technical users.
- Consistent in structure and behavior.

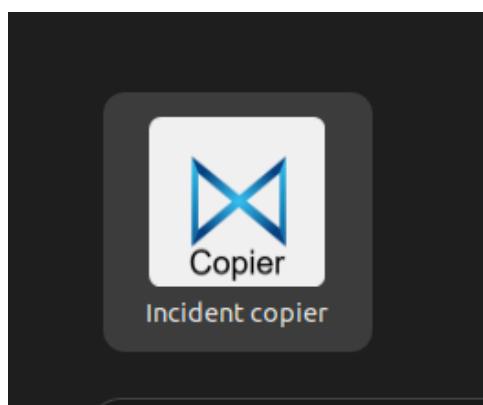
SYSTEM REQUIREMENTS

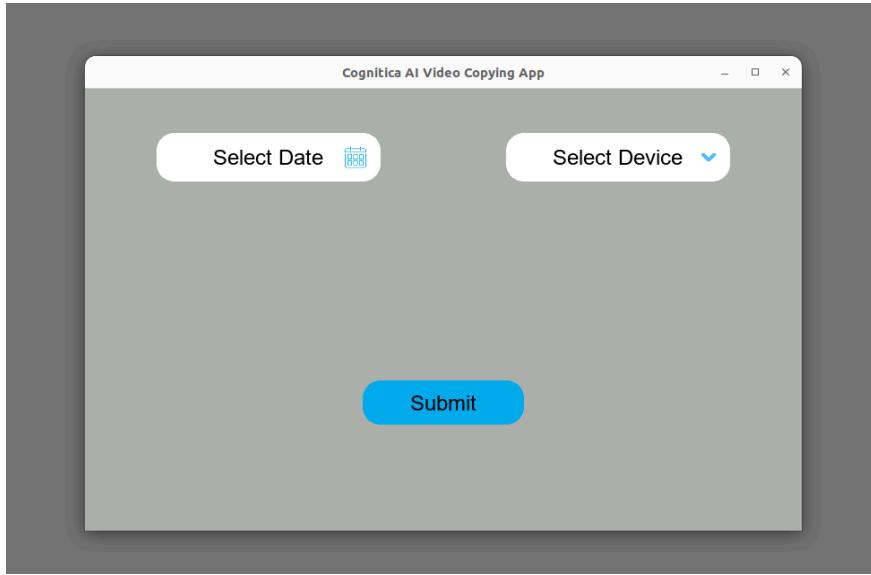
| Requirement | Details |
|------------------|---------------------------------|
| Operating System | Ubuntu 22.04 LTS |
| External Device | USB drive or HDD (min 2GB free) |
| Display & Input | Monitor, Mouse/Keyboard |
| Internet | Not required |

HOW TO USE THE APP – STEP-BY-STEP.

Step 1: Launch the App:

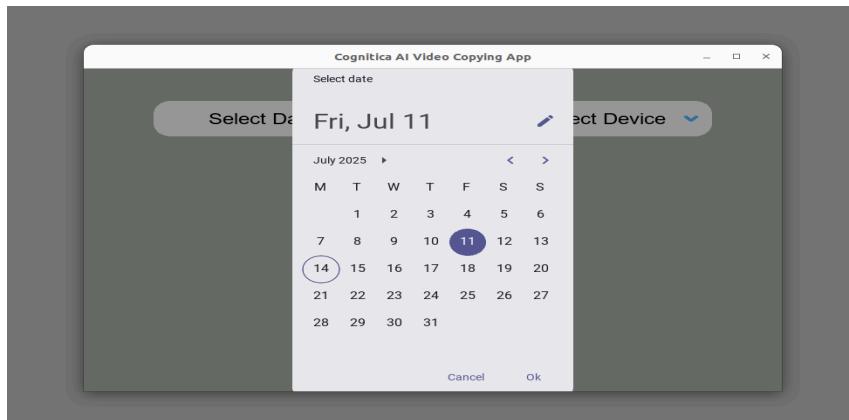
- Double-click the app (Incident Copier) in the Desktop or Applications.

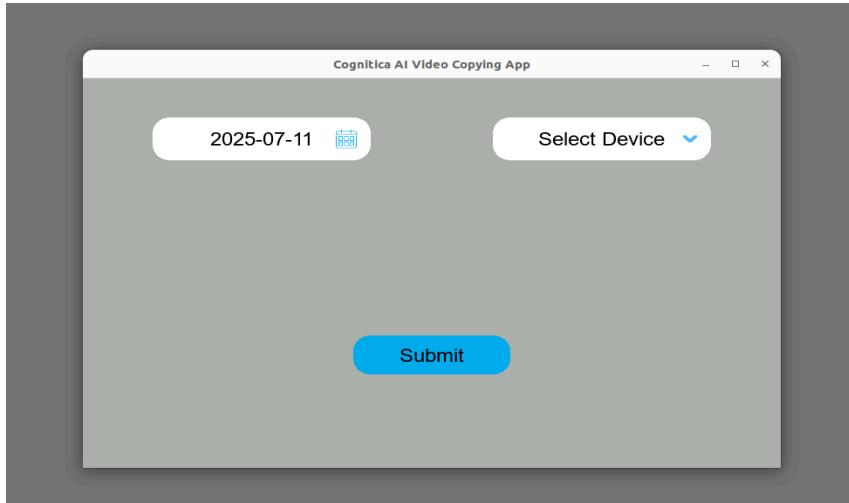




Step 2: Select a Date:

- Click on the "**Select Date**" button.
- Choose the required date from the calendar picker.





- You can also type in a custom date using the input dialog.

Step 3: Insert Your USB Device:

- Plug in your USB drive.
- Wait a few seconds for the app to auto-detect it.

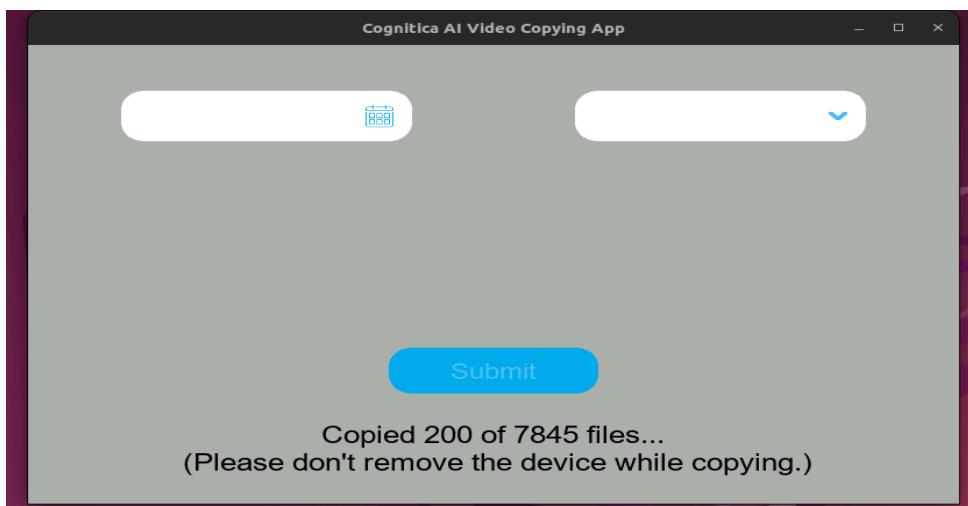
Step 4: Select the Device:

- Use the "**Select Device**" dropdown to choose the correct USB path.



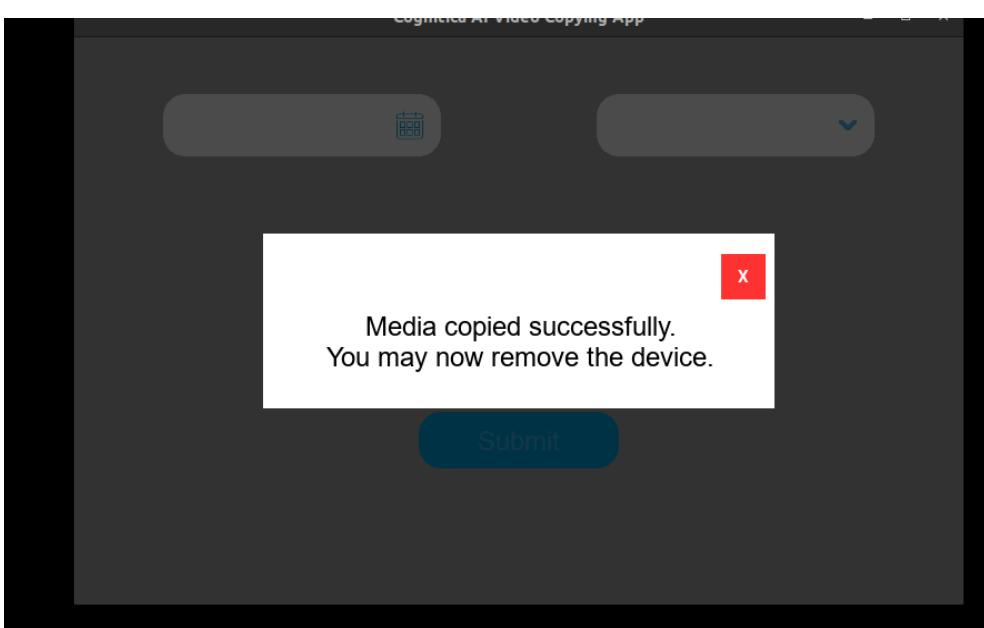
Step 5: Click Submit:

- Click the **Submit** button to begin the process.
- The app will:
 - Scan images from the selected date.
 - Filter, encrypt, and copy them.
 - Show a popup when done.



Step 6: Safely Remove USB:

- After “Media copied successfully” appears, you may remove the USB.



Common Errors & Solutions:

| Problem | Cause / Solution |
|--|---|
| No Device Found | Plug in your USB and wait. Ensure it is mounted. |
| Not Enough Space | Use a USB with more storage or delete old files |
| No Images Found | There are no images matching the selected date in the system folder |
| Copying Failed | USB was removed during copy or is write-protected |
| M series, S series file format not supported | Incompatible media filenames. Contact Cognitica AI support team |

INCIDENT VIEWER

PURPOSE

Incident Viewer is a desktop application built to help safety officers and industrial users decrypt, group, preview, and download incident videos. These videos are generated from encrypted files captured by forklift-mounted AI safety cameras.

This tool is useful for:

- Reviewing safety violations.
- Exporting grouped incidents as labeled .mp4 files.
- Ensuring tamper-proof, encrypted data handling.

The app has been designed to be:

- Simple and intuitive for users.
- Responsive and secure.

SYSTEM REQUIREMENTS

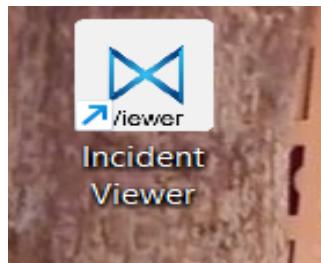
| Requirement | Details |
|-------------------------|-------------------------------------|
| Operating System | Ubuntu 22.04 LTS or Windows 10/11 |
| External Storage | USB drive or HDD (with .bin images) |
| Display/Input | Monitor, Mouse/Keyboard |
| Internet | Not required |
| RAM | Minimum 2 GB recommended |

HOW TO USE THE APP – STEP-BY-STEP

You can launch it as a desktop executable.

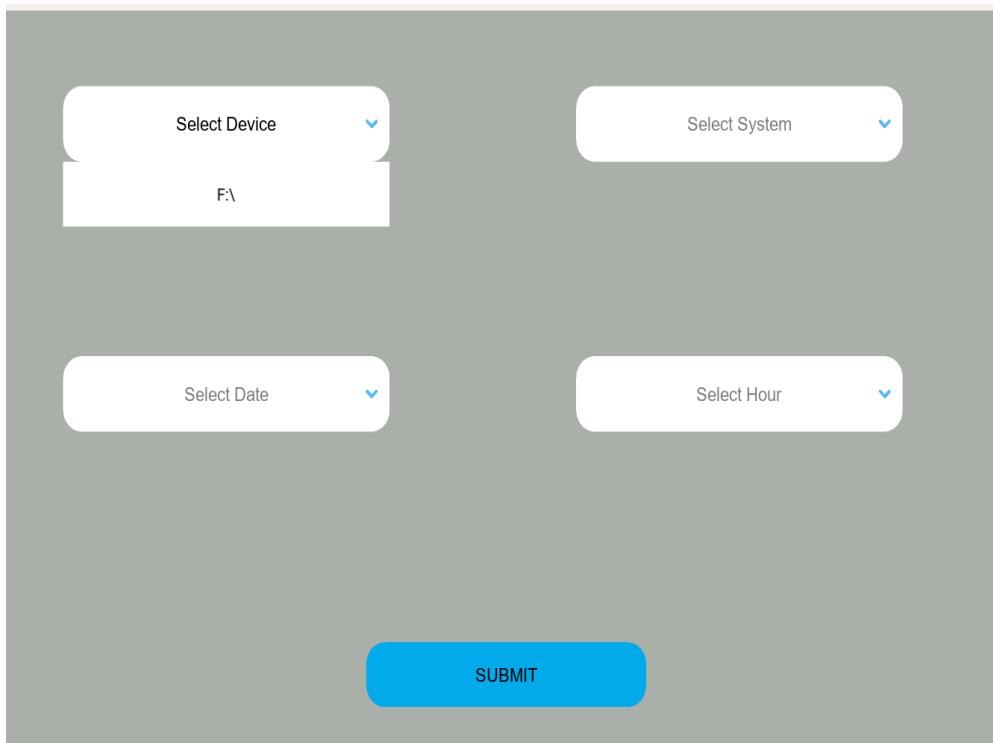
Step 1: Launch the App

- Double-click on the Incident Viewer icon.



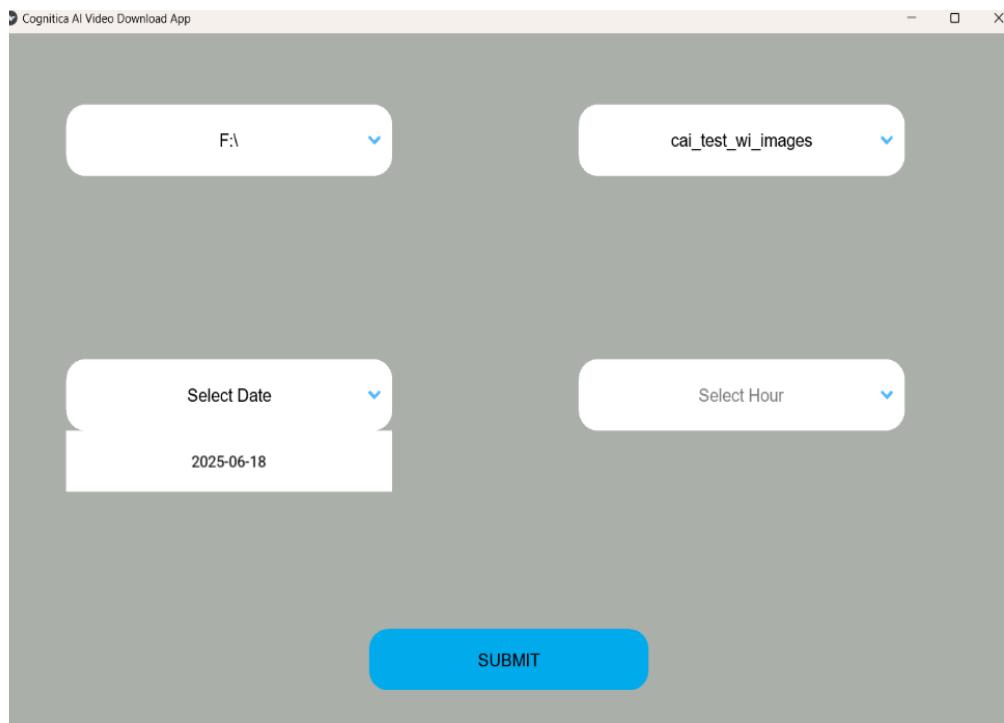
Step 2: Select the Device

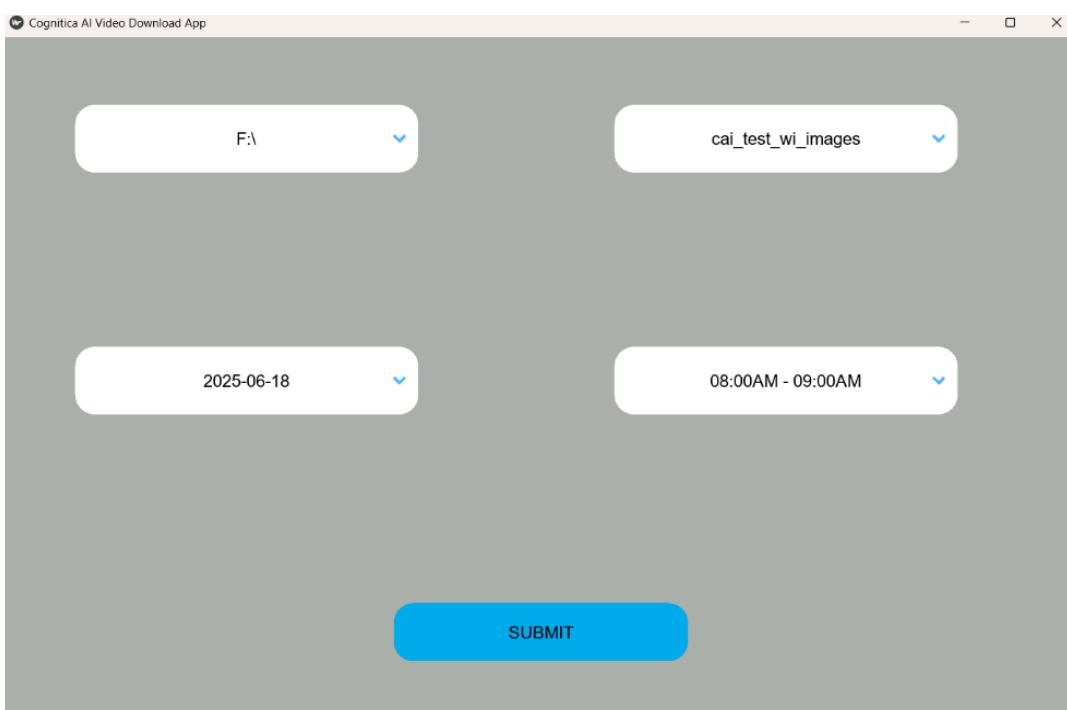
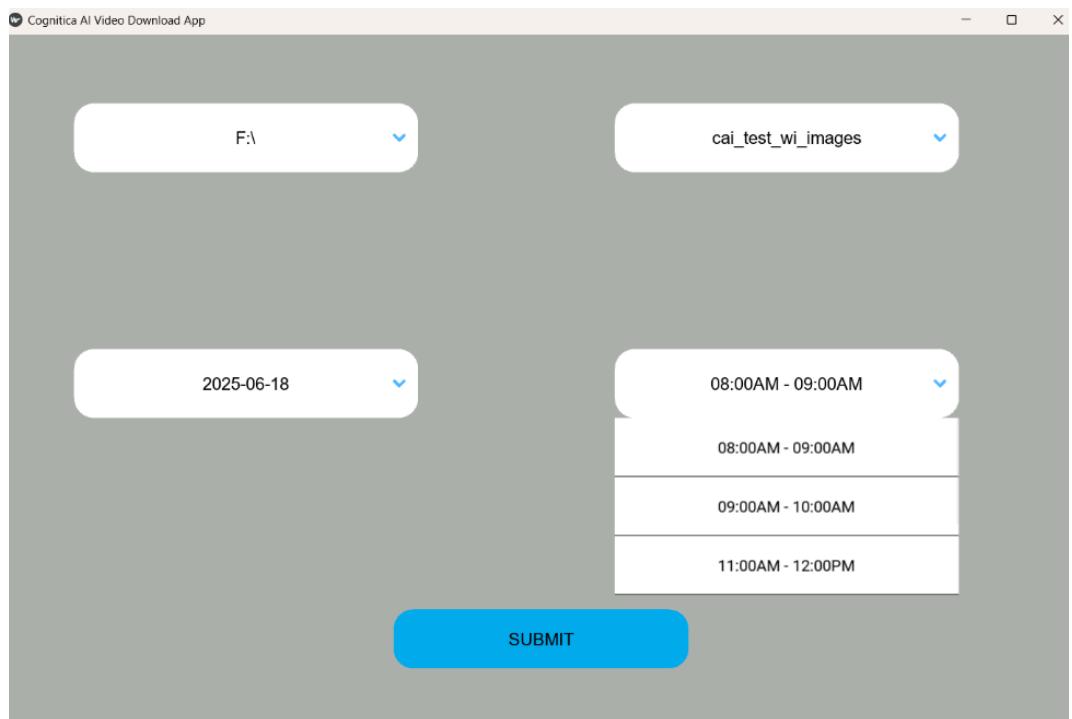
- Insert your USB and select the folder containing the encrypted data retrieved from the Incident Copier app.
- Wait a few seconds for the device to appear.
- Use the “Select Device” dropdown.



Step 3: Choose System, Date & Hour

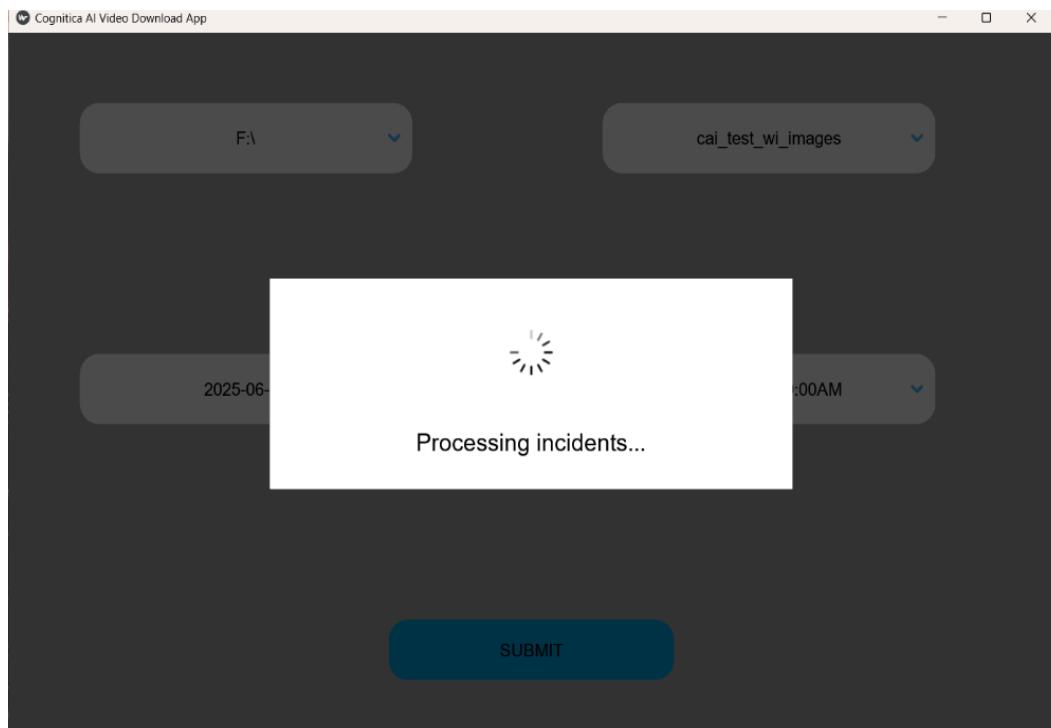
- Choose a system from available folders (e.g., cai_nuc_images).
- Pick a date in IST (Indian Standard Time).
- Select a 1-hour time window (e.g., 11:00AM - 12:00PM).





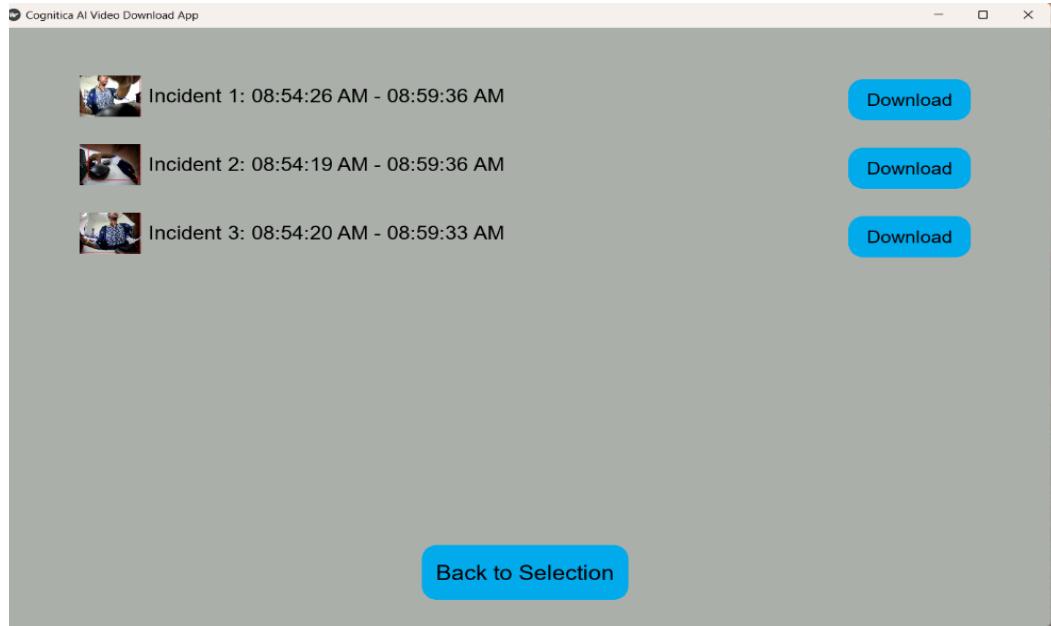
Step 4: Submit

Click **SUBMIT**



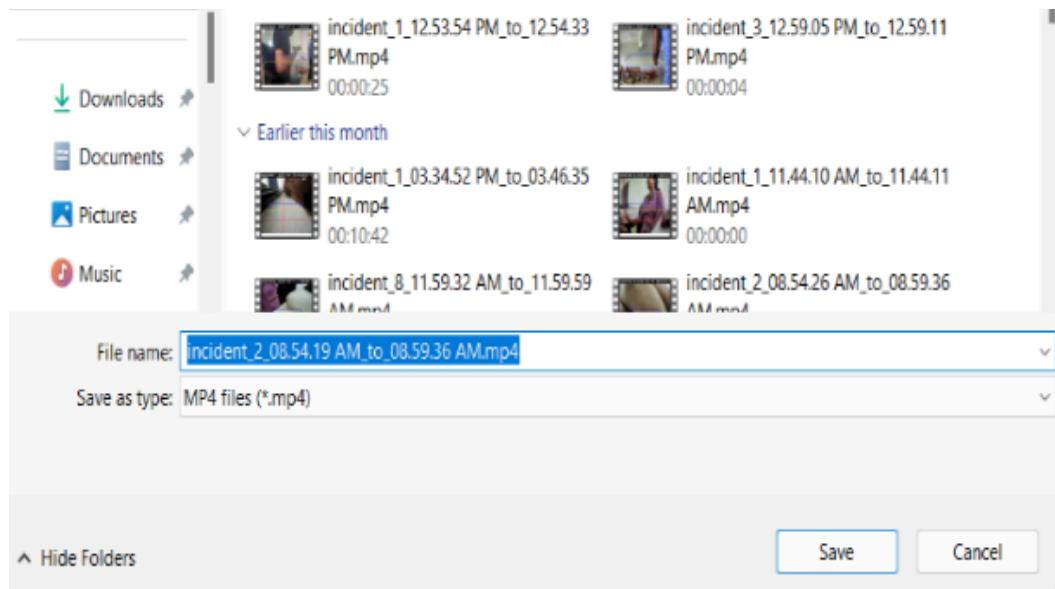
Step 5: Review & Download Videos

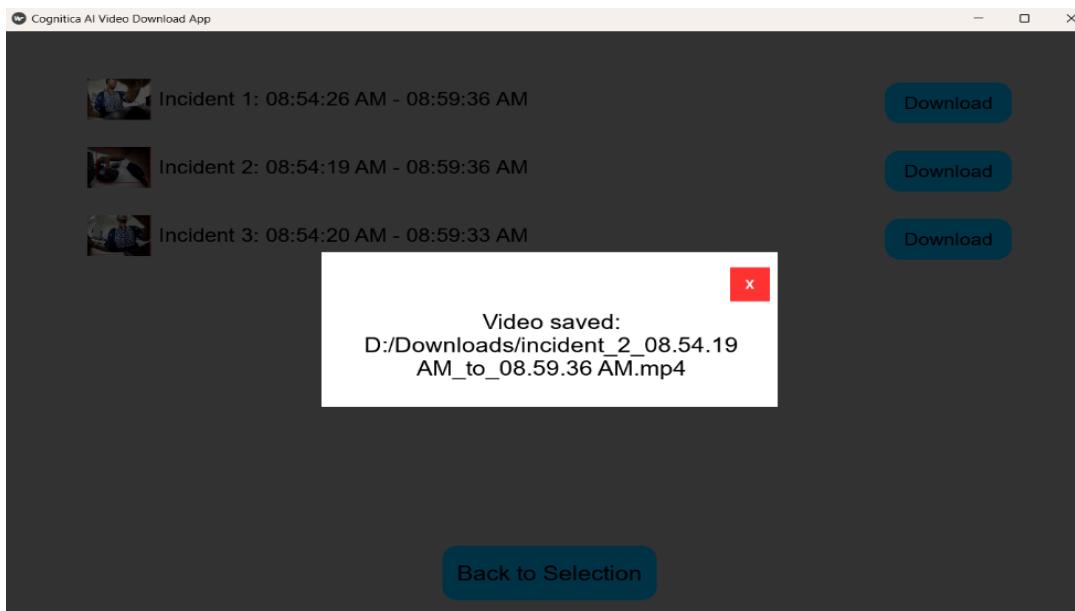
- List of incidents within the selected time duration will be shown with a thumbnail and time range.
- Click **Download** next to any incident to save the video as .mp4.
- Videos will be auto-labeled (e.g., incident_1_11.00.00_to_11.05.00.mp4).



Step 6: Save & Close

- You can select a custom folder and filename for saving.
- After saving, return to the selection screen or exit the app.





COMMON ERRORS & SOLUTIONS

| Problem | Solution |
|----------------------------|---|
| No Device Found | Ensure USB is connected and mounted |
| No System Found | The required folder (e.g., Cognitica AI) is missing |
| No Images Found | No .bin files found for the selected time/date |
| Decryption Failed | Image is corrupted or wrong encryption key used |
| App Crashes / Unresponsive | Try re-running or checking system logs in logs/incident.log |
| Video Not Saving | Ensure destination folder is writeable and has space |