

Mobile Application to Locate Nearest CCTV Cameras for Investigating Officers

PROBLEM STATEMENT

- Issue: Investigating officers face delays in locating nearby CCTV cameras due to a lack of real-time access to geo-tagged camera data. These delays can negatively impact the speed and success of criminal investigations.
- Impact: Critical footage may be lost or missed, leading to unresolved cases or delayed investigations.
- Need: A system that allows officers to instantly locate nearby cameras, view details, improving law enforcement efficiency.

INTRODUCTION

Overview:

- Current Challenge: No efficient method for officers to locate and access nearby CCTV cameras during investigations.
- Proposed Solution: A mobile app for officers to locate CCTV cameras via GPS and an admin web-based dashboard to manage and update camera data.
- Key Benefits: Faster access to camera footage, improved investigation efficiency, and better data management for law enforcement agencies. Its cost effective aswell.

PROPOSED SOLUTION

Solution Architecture:

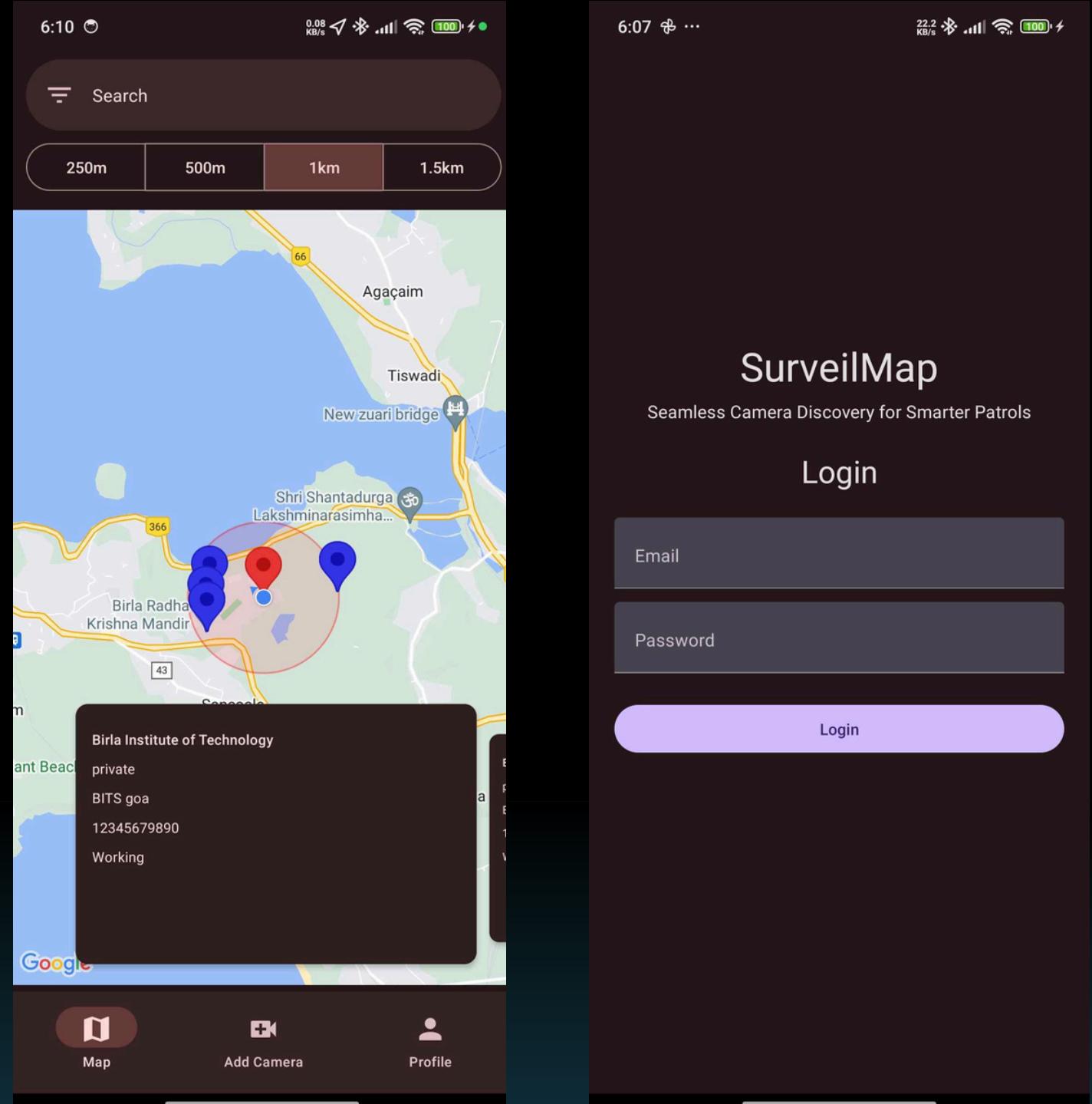
- Mobile Application: For field officers, allowing them to view and locate nearby cameras via GPS, interact with a map, and access camera details.
- Web-Based Admin Dashboard: For admin personnel, to manage camera data, upload new details via Excel, and monitor camera status.

System Components:

- Geo-tagged CCTV Data: Cameras are marked by location and ownership details in a centralized database.
- GPS Integration: Enables real-time camera tracking based on officer location.
- Data Security: Secure login, role-based access control, and real-time data synchronization ensure safe and accurate updates.

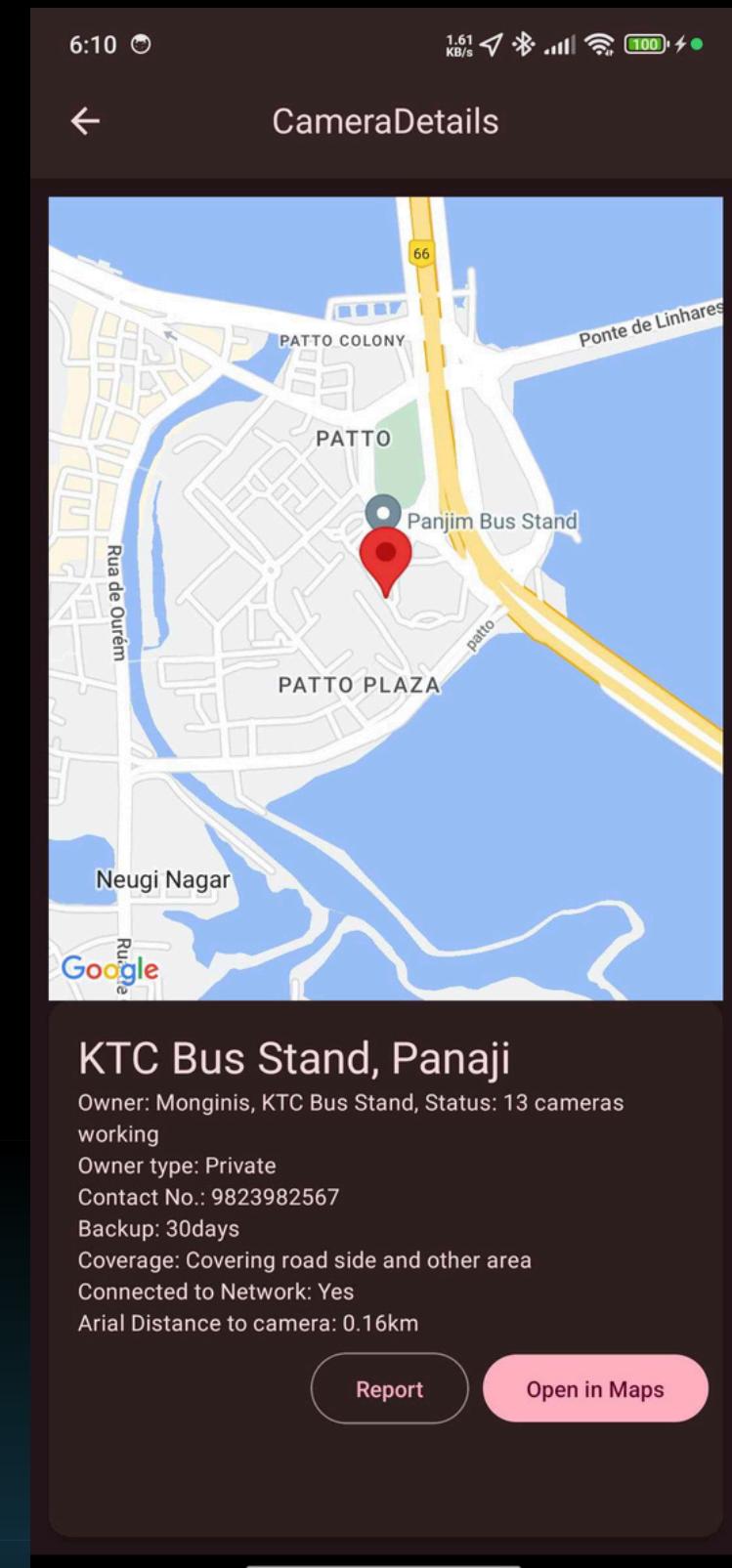
PROPOSED SOLUTION FEATURES

- Feature 1: Locate Nearby Cameras (Mobile App):
 - Officers can use GPS to locate nearby CCTV cameras within their vicinity.



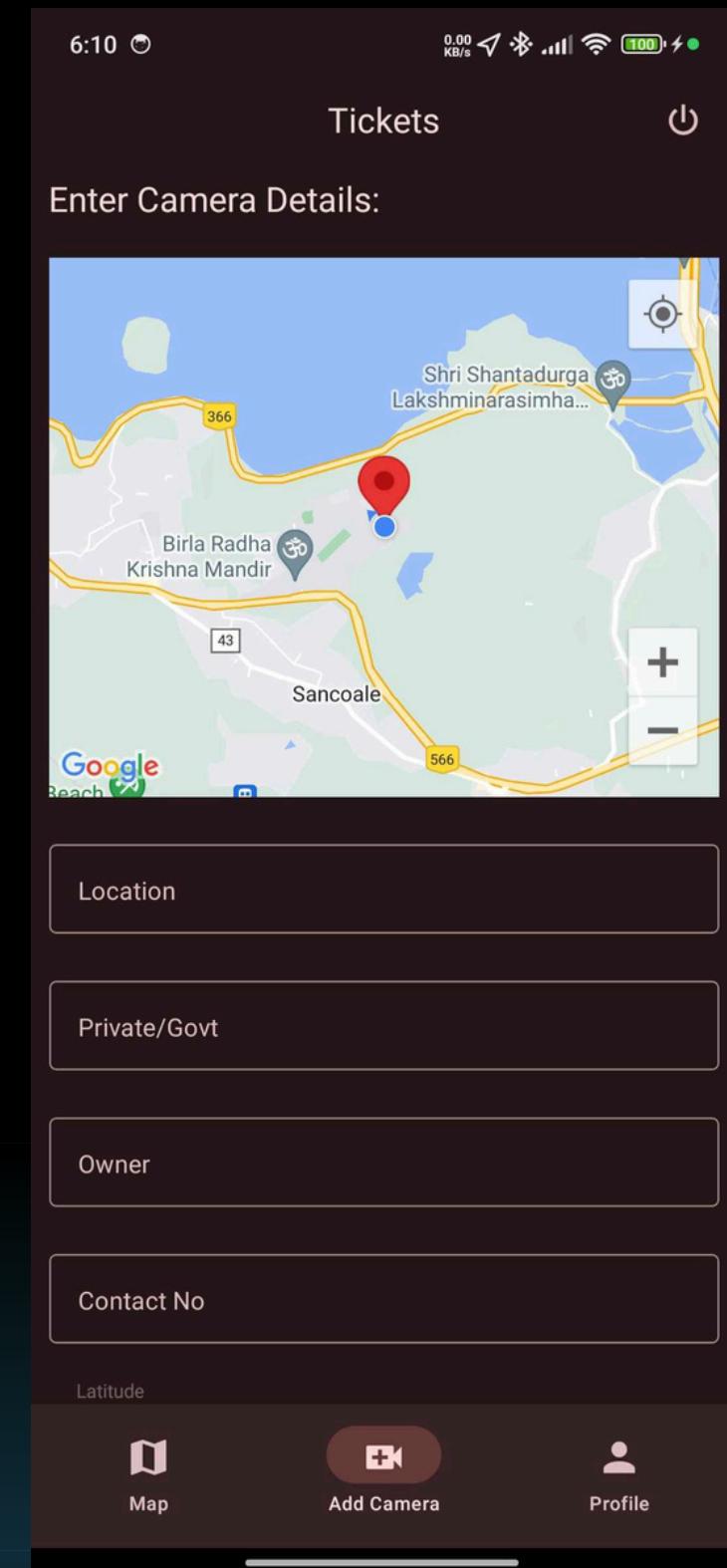
PROPOSED SOLUTION FEATURES

- Feature 2: Interactive Map and Navigation (Mobile App):
 - Officers can view cameras on an interactive map, select the nearest one, and receive step-by-step navigation to the camera location.



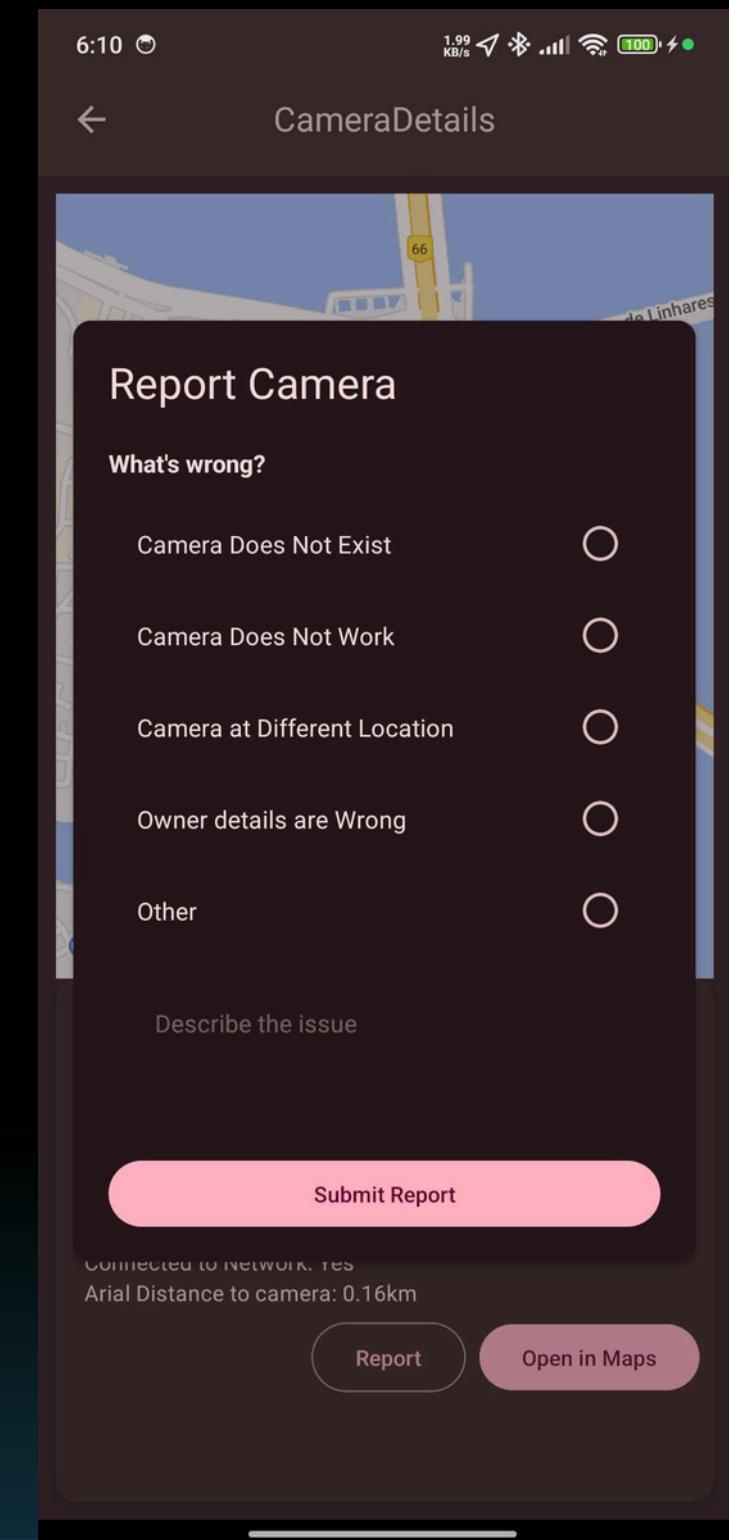
PROPOSED SOLUTION FEATURES

- Feature 3: Tickets and Reporting (Mobile App):
 - Officers can add new cameras with multiple input fields.



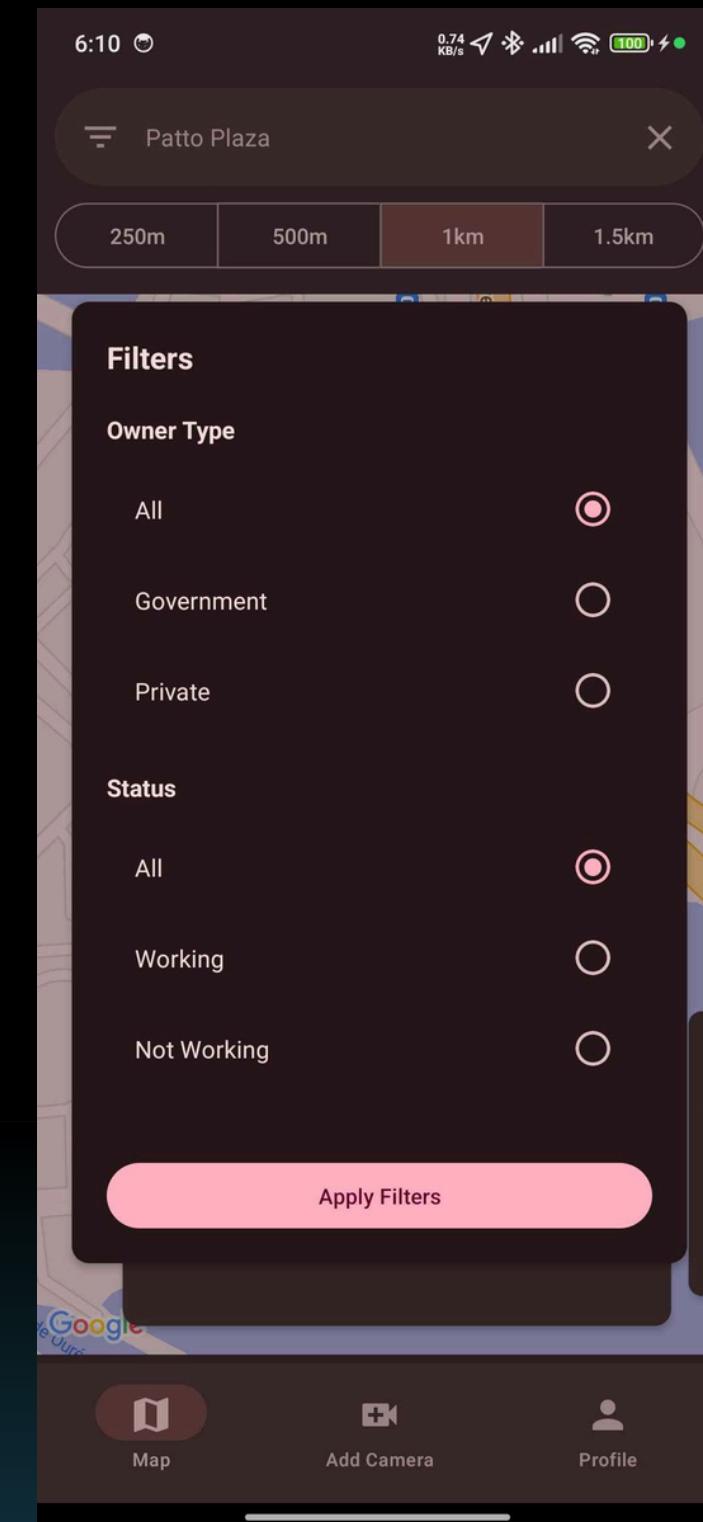
PROPOSED SOLUTION FEATURES

- Officers can also raise a ticket if they find at a particular place that a camera is not working



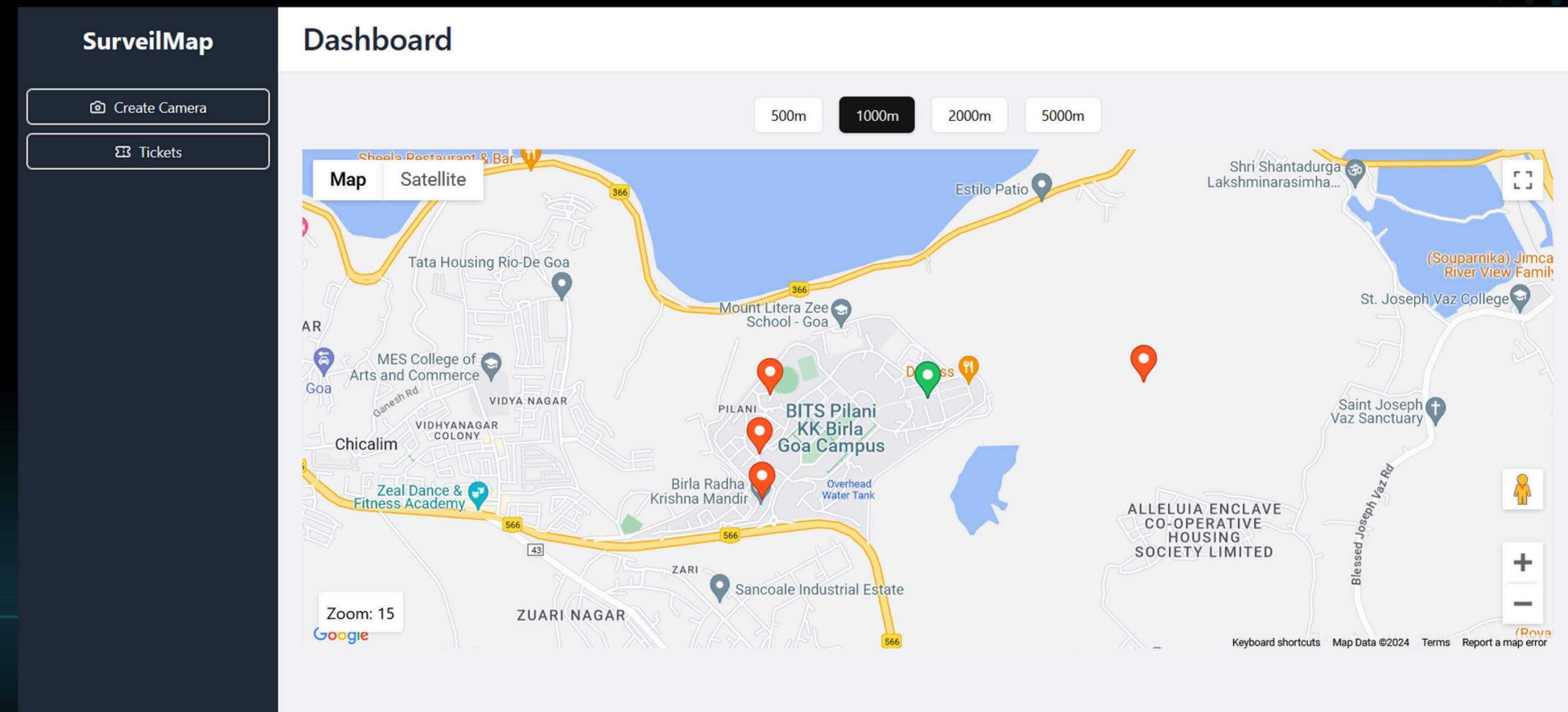
PROPOSED SOLUTION FEATURES

- Officers also have the functionality of filters where they can filter camera based on Owner type and status



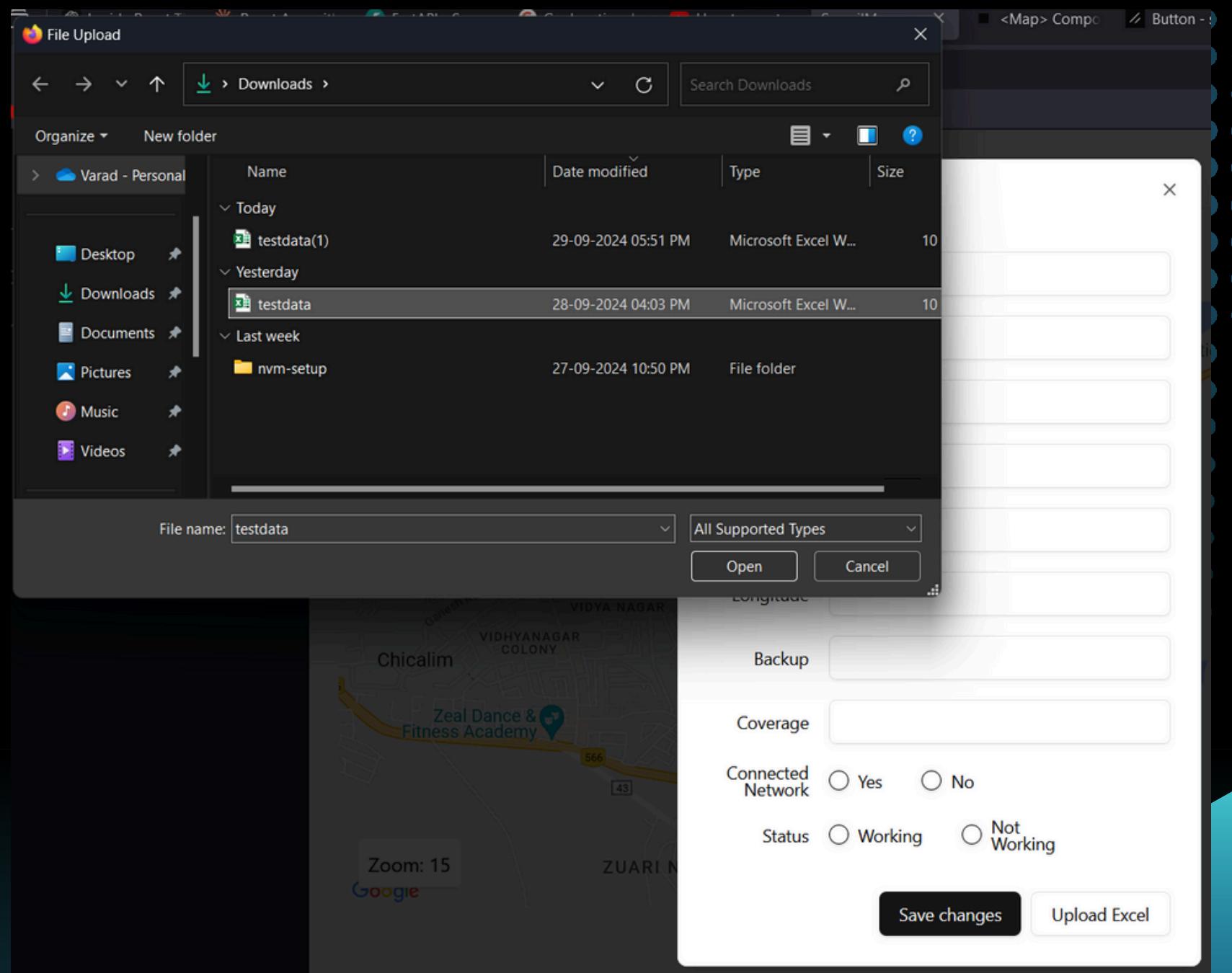
PROPOSED SOLUTION FEATURES

- Feature 4: Admin Dashboard for Data Management(Web Dashboard):
 - Admin personnel can create cameras and manage camera data via a web-based platform.
 - Tickets can be viewed on the web



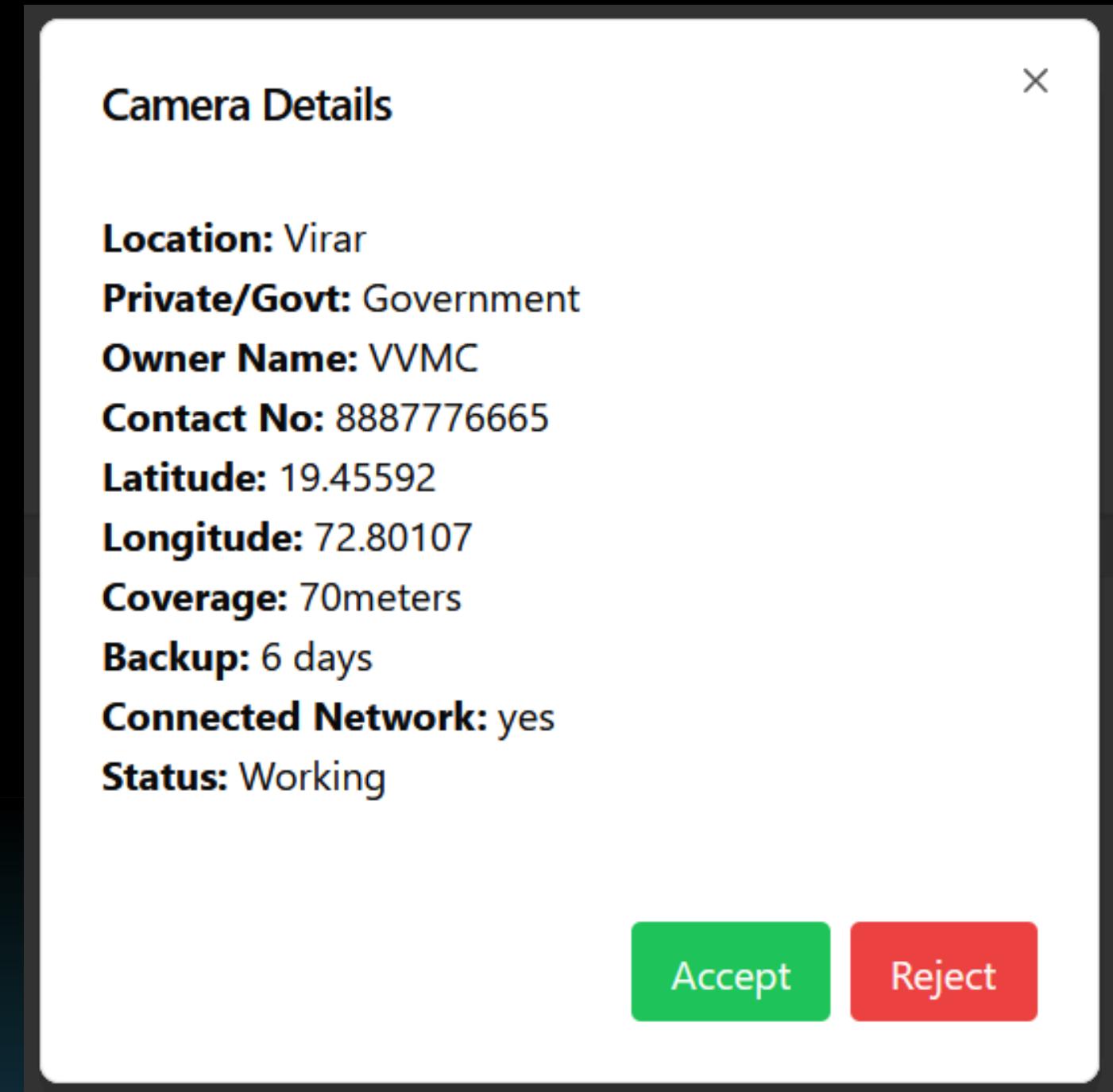
PROPOSED SOLUTION FEATURES

- Feature 4: Admin Dashboard for Data Management(Web Dashboard):
 - Provides the ability to upload camera information through Excel files or manual entry, ensuring easy updates.



PROPOSED SOLUTION FEATURES

- Feature 5: Tickets reported from the app are received on the dashboard and the admin can accept and reject it.



PROPOSED SOLUTION FEATURES

- The ticket dashboard contains all the tickets received from the app

The image shows a mobile application interface titled "Tickets". It displays three separate ticket cards, each representing a different camera issue:

- Beachfront camera**
ID: 1GdBhml2k2nloKI2LGr
Camera ID: o3EwJguclDggijggEu5k
Location: Virar
Status: Pending
Reported By: On-ground Personnel
Reported At: 29/9/2024, 2:47:34 pm
- Beachfront camera**
ID: 2HFikr512lgJN55s4h6Q
Camera ID: 7QtzPZJ6HlmEY1YTxhrM
Location: Virar
Status: Pending
Reported By: On-ground Personnel
Reported At: 29/9/2024, 2:47:36 pm
- Camera Does Not Work**

RESULTS AND COMPARISON WITH EXISTING SOLUTIONS

- **Existing Solutions:**

- Current methods are manual or require officers to contact local authorities to locate cameras, which delays investigations.
- No centralized system for officers to access real-time CCTV data on the go.

- **Our Solution:**

- **Speed:** Officers can instantly find nearby cameras using GPS, reducing search time.
- **Efficiency:** Officers can directly navigate to cameras, view details, and report any discrepancies.

- Our Solution:

- **Real time data:** Admins can upload or update camera data instantly, making it available to officers in the field in real time.

- Comparision:

- **Existing systems:** Lack of real-time updates, no mobile integration, manual data retrieval.
- **Our System:** Fully mobile, GPS-enabled, real-time updates, secure data handling.

CONCLUSION

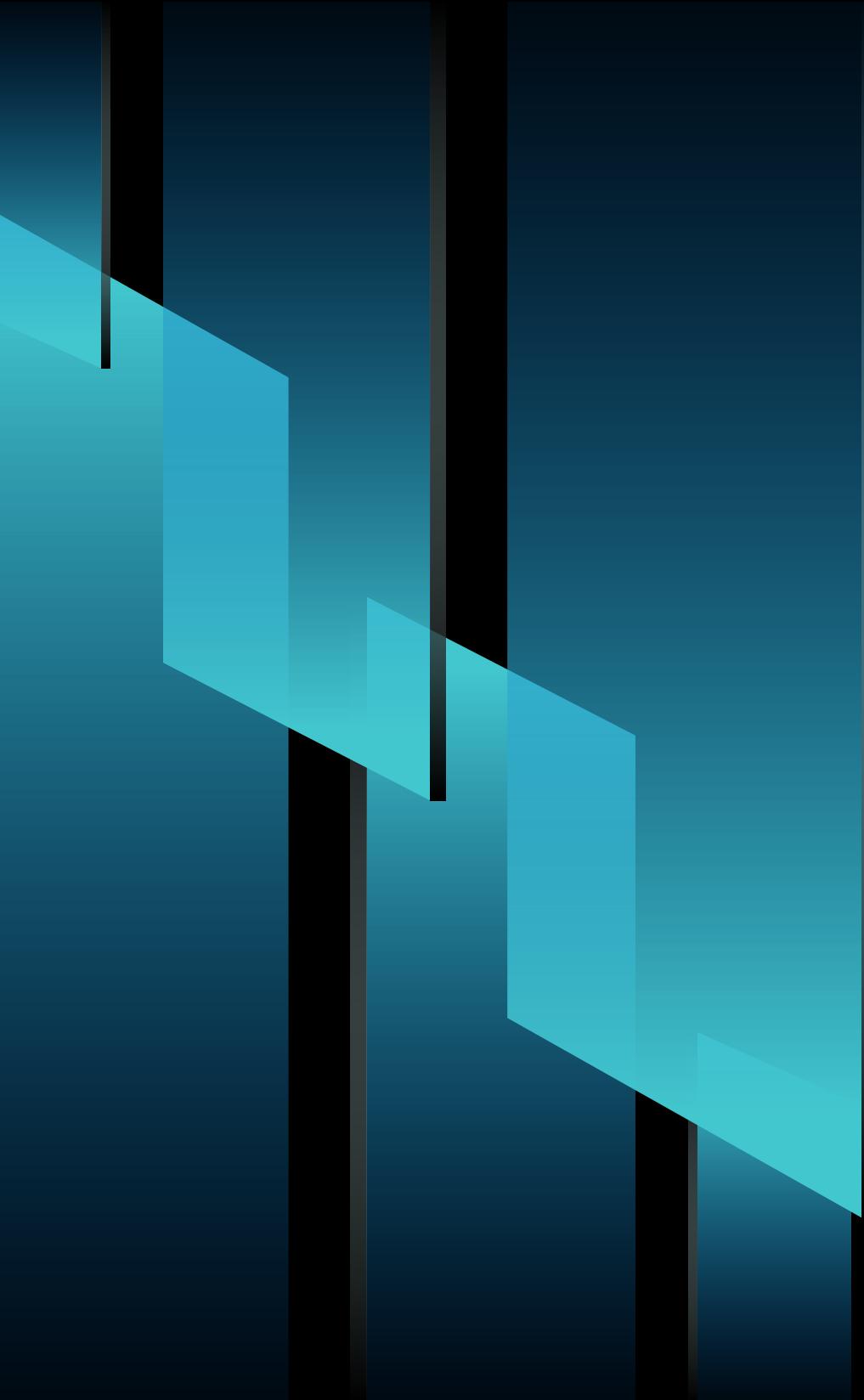
Summary:

- Our proposed mobile app and web-based system provide an efficient solution for locating and managing CCTV cameras for investigative purposes.
- The system addresses current delays by providing real-time access to camera data and fast navigation tools.
- It also ensures better resource management for law enforcement agencies by maintaining an accurate and secure database of cameras.

CONCLUSION

Key Takeaways:

- Impact on Investigations: Faster access to cameras means faster evidence collection, improving case-solving rates.
- Future Scope: The system can be expanded to include additional features like automated alerts when new cameras are added nearby or integration with other law enforcement databases.



THANK YOU

