

SurveilMap

Seamless Camera Discovery for Smarter Patrols

Overview:

The CCTV Detection Application is a comprehensive solution designed to help law enforcement officers locate and manage CCTV cameras in their jurisdiction. The system consists of two main components: a mobile application for officers in the field and a web-based admin dashboard for central management.

Problem Statement:

Investigating officers often struggle to quickly locate nearby CCTV cameras, delaying critical investigations. An efficient solution is needed to provide real-time access to geo-tagged CCTV data, including owner information and backup duration, based on the officer's current or specified location.

Proposed Solution:

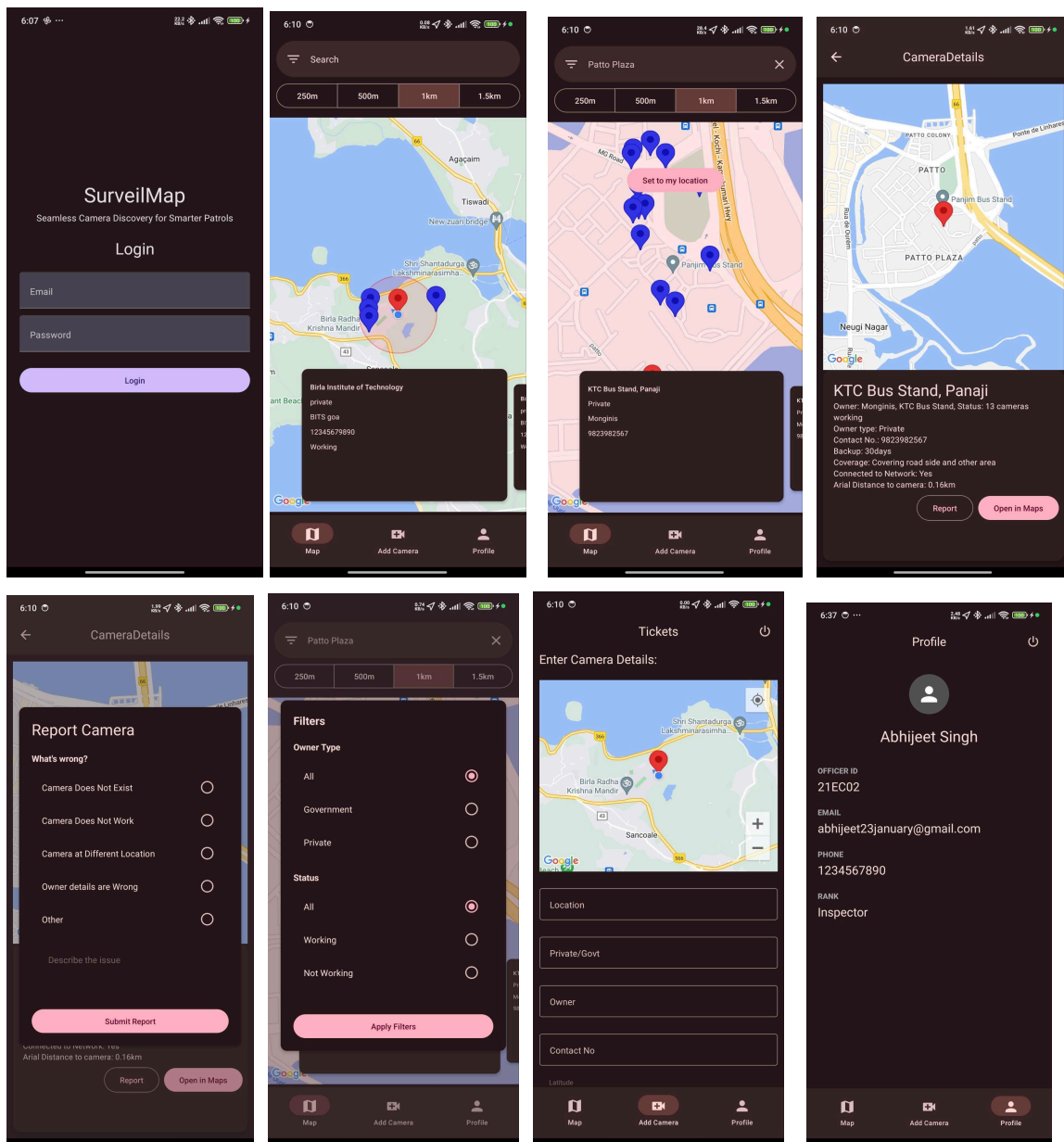
We propose a two-part solution comprising a mobile application for field officers and a web-based admin dashboard. The mobile app will help on-ground personnel locate nearby CCTV cameras using GPS and provide details such as owner information, backup duration, and camera specifications. Officers can view CCTV locations on an interactive map and use navigation features to reach the selected camera location. The web application will serve as an admin dashboard for managing the CCTV database, allowing authorised personnel to add or update CCTV details directly or via an Excel file.

Features:

1. Mobile Application:

- Camera Locator:** Find nearby CCTV cameras using GPS or a specific address with dynamic radius settings.
- Interactive Map:** View and select cameras on an easy-to-use map interface.
- Navigation Assistance:** Get directions to the selected camera location.
- Detailed Information:** Access comprehensive camera details, including owner contact, backup duration, and specifications.
- Reporting System:** Report discrepancies or suggest updates using an integrated ticketing system.
- Search Capabilities:** Can check targeted locations for the cctv cameras

Mobile Application Images:



2. Web Application

The web-based admin dashboard provides a centralized platform for managing the CCTV database and handling field reports.

- a. **Secure Access:** Authorized personnel can safely access and manage the CCTV database.
- b. **Data Management:** Add or update CCTV data through direct input or Excel file uploads.
- c. **Real-time Updates:** Instantly update database with corrections based on field reports.
- d. **Monitoring:** Keep track of camera locations, operational status, and ownership details.
- e. **Ticketing System:** Efficiently handle discrepancies reported from the field.

Web Application Screenshots:

Create Camera

Location

Richbuilders Colony

Private/Govt

Private

Owner Name

Suraj Kamat

Contact No

9702134239

Latitude

15.902

Longitude

86.23

Backup

15 days

Coverage

Front main road

Connected Network

☐ Yes

☒ No

Status

☒ Working

☐ Not Working

Save changes

Upload Excel

← Tickets

Beachfront camera

ID: 1Gd8hml2k2nloKl2LGr

Camera ID: o3EwJgucIDggjggEu5k

Location: Virar

Status: Pending

Reported By: On-ground Personnel

Reported At: 29/9/2024, 2:47:34 pm

Beachfront camera

ID: 2HfFkr512lg/N55s4h6Q

Camera ID: 7QtzPJ6HlmEY1Yt4hrM

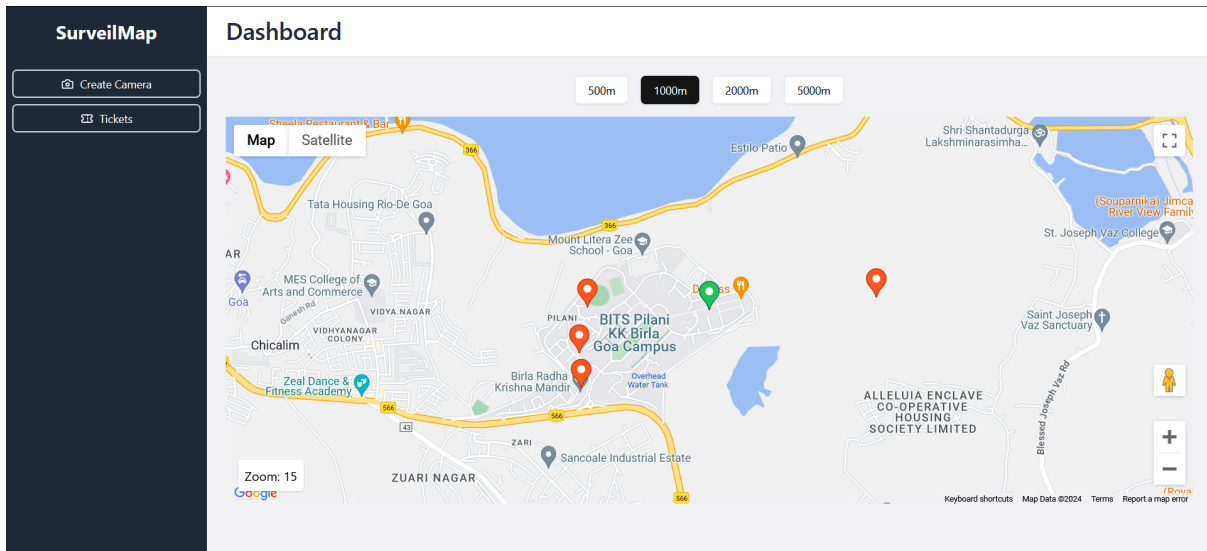
Location: Virar

Status: Pending

Reported By: On-ground Personnel

Reported At: 29/9/2024, 2:47:36 pm

Camera Does Not Work



Camera Details

Location: Virar

Private/Govt: Government

Owner Name: VVMC

Contact No: 8887776665

Latitude: 19.45592

Longitude: 72.80107

Coverage: 70meters

Backup: 6 days

Connected Network: yes

Status: Working

Accept

Reject

Installation:

Individual readme files are placed in the folders of the backend server, the web application and the mobile application.

API Keys have been removed from all our codes as some of it is paid like the Google Maps API and we will be liable to charges if it gets leaked or overused

Citations:

- [StackOverflow](#)
- [Google Maps Api Documentation](#)
- [React Native Documentation](#)
- [Github](#)
- [React Native Paper](#)
- [NPM](#)
- [ReactRouter Documentation](#)
- [React Documentation](#)
- [Tailwind CSS](#)
- [FastAPI documentation](#)
- [Uvicorn Server documentation](#)
- [Google Maps Platform](#)
- [Vite](#)
- [AI tools: Gemini, ChatGPT, Claude.ai, V0.dev](#)