



Helal  
Ind.

# SECURITY TOWN SYSTEM

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# OVERVIEW

01

About Us

02

Our Team

03

Our Mission

04

System Analysis

05

System Design

06

Strategy



# INTRODUCTION

In today's world, security systems are getting smarter with the help of Artificial Intelligence (AI). These systems use advanced technology, like smart cameras, to keep places safe by recognizing faces and detecting unusual behavior.

## Features

**Smart Cameras**

**Face Recognition and Data Collection**

**Abnormal Behavior Detection**

**Threat Analysis and Tracking**





# Why ....? (Benefits)

- 1-Enhanced Public Safety**
- 2-Crime Prevention and Detection**
- 3-Emergency Response Coordination**
- 4-Improved Incident Management**
- 5-Data-driven Decision Making**





# SPONSORS

- Local Government Agencies
- Grant Funding Organizations
- International Aid Organizations
- Private Sector Businesses
- Community Organizations
- Nonprofit Organizations

# SYSTEM ANALYSIS

Phases of System Analysis

01 Identify Stakeholders

02 Functional Requirements

03 non-Functional Requirements

04 Analyze Existing Systems

05 Risk Assessment

06 Feasibility Study



# Functional Requirements

## 1. User Authentication & Authorization

- The software should provide a secure login mechanism for authorized users, such as administrators and security personnel.

## 2. Surveillance Management

- The software should integrate with surveillance cameras to display live video feeds from various locations within the town.
- It should allow users to view, pan, and zoom camera feeds remotely for comprehensive monitoring.
- The software should support motion detection and alerting capabilities to notify users of suspicious activities in real-time

## 3. Incident Reporting and Management

- Users should be able to report security incidents or emergencies through the software interface.
- The software should facilitate the recording and documentation of incident details, including time, location, and nature of the incident.
- It should support workflow management for incident resolution, including assignment of tasks, tracking of progress, and escalation procedures

# Functional Requirements Cont'd

## 4. Emergency Response Coordination

- The software should facilitate communication and coordination among emergency responders, including police, fire department, and medical services.
- It should support emergency alerting mechanisms, such as SMS notifications or automated phone calls, to notify relevant stakeholders during emergencies.
- The software should integrate with emergency response protocols and procedures to ensure timely and effective response to security incidents.

## 5. Geofencing & Location-Based Services

- The software should support geofencing capabilities to define virtual boundaries around specific areas within the town and enable automated actions or alerts based on the entry or exit of individuals or vehicles within defined geofenced zones.

## 6. Integration with Biometrics Systems

- The software should integrate with biometric systems, such as fingerprint scanners or facial recognition devices, to enhance identity verification and access control.
- It should enable the enrollment and management of biometric data for authorized personnel and visitors.

# Functional Requirements

## Cont'd

### 7. Advanced Video Analytics

- The software should provide advanced video analytics capabilities, such as object detection, object tracking, and behavior analysis, to enhance surveillance effectiveness.
- It should enable the detection of specific objects or events of interest, such as abandoned objects, loitering, or crowd gatherings.

### 8. Live Monitoring

- The Software Should be able to Track and Monitor any Person Based on Face Recognition and Other AI Methods, and get his/her last visited places and history.

### 9. Live CCTV

- The software should be able to Stream town and other facilities in Real-Time (Live) and Show Data Analysis and Graphs that shows Population of this place and potential Threats and Other Eco & Health Data in Real-Time Streaming and Store these data in Main Database.



# Non-Functional Requirements

## 1. Performance

- Specifies the system's responsiveness and throughput under various workload conditions.
- Example: "The system should be able to process and display live video feeds from surveillance cameras with minimal latency, even during peak usage periods."

## 2. Reliability

- Describes the system's ability to maintain its functionality over time and in the face of failures.
- Example: "The system should have a mean time between failures (MTBF) of at least 10,000 hours and should be able to recover from failures gracefully without data loss."

## 3. Scalability

- Addresses the system's ability to handle growing volumes of data or users without performance degradation.
  - Example: "The system should be horizontally scalable, allowing for the addition of new surveillance cameras and users without impacting system performance."
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# Non-Functional Requirements

## Cont'd

### 4. Security

- Ensures the confidentiality, integrity, and availability of system data and functionalities.
- Example: "The system should comply with industry-standard encryption protocols to protect sensitive data, and user access should be authenticated and authorized based on Specific Roles."

### 5. Usability

- Focuses on the system's ease of use and intuitiveness for end-users.
- Example: "The user interface should be intuitive and user-friendly, requiring minimal training for users to navigate and perform tasks."



# FEASIBILITY STUDY

**Evaluation of technical feasibility (availability of technology and resources).**

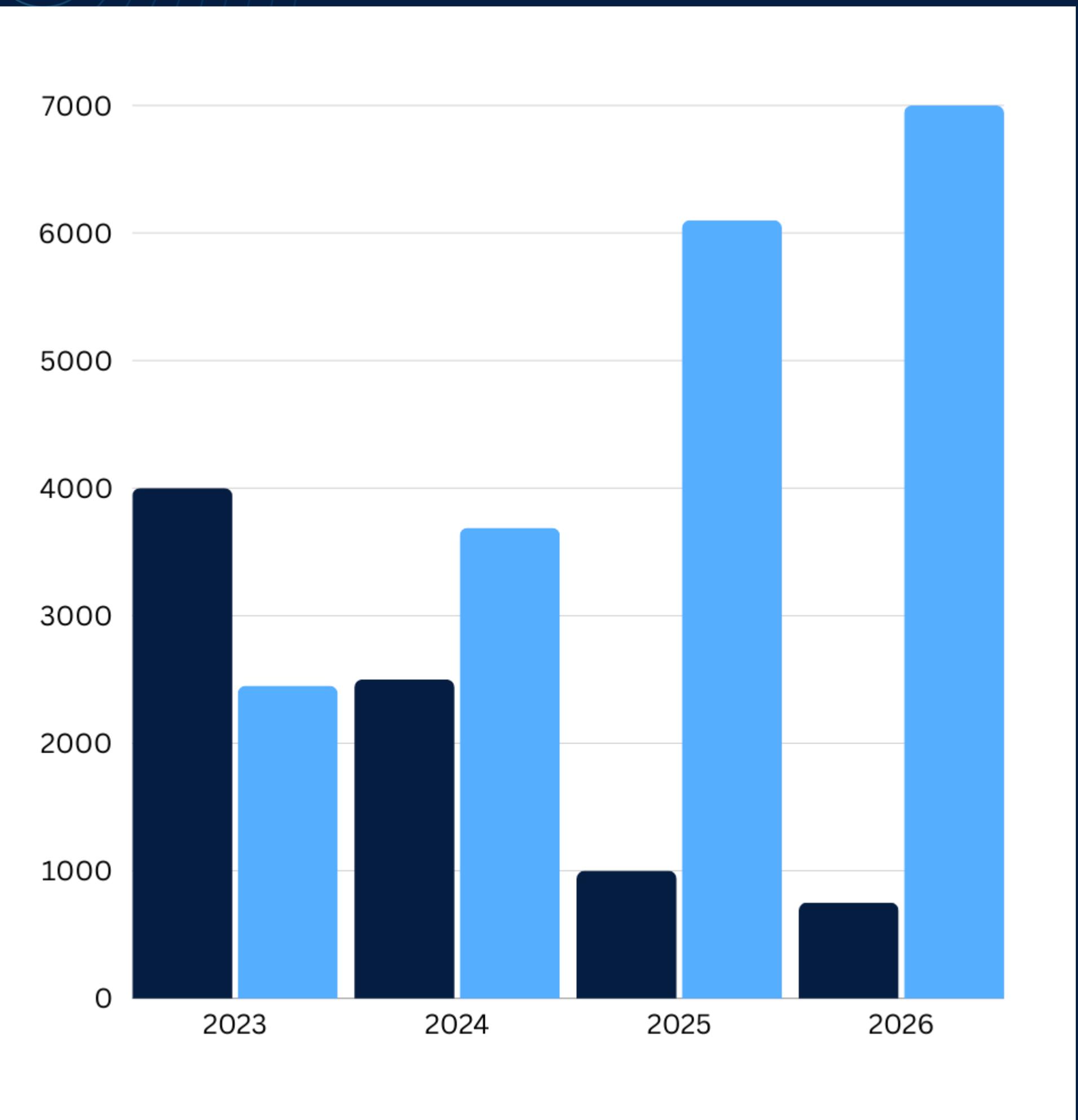
**Analysis of economic feasibility (cost-benefit analysis, ROI).**

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**Assessment of operational feasibility (impact on existing operations, staffing, training).**

# Cost-Benefit Analysis

Bar chart comparing  
the initial investment costs VS  
the projected benefits over time



A photograph of a diverse group of professionals sitting around a long white conference table in a modern office. They are looking at laptops and discussing documents. The office has large windows and a high ceiling with exposed ductwork.

# CONCEPT IN BUSINESS

## Profitability

Software License, Repair and Fix bugs , Installments Update, Smart Camera (STS Cam ) Production.



## Customer Value

Enhanced Security and Safety, Improved Emergency Response, Data-driven Decision Making, Community Engagement and Empowerment

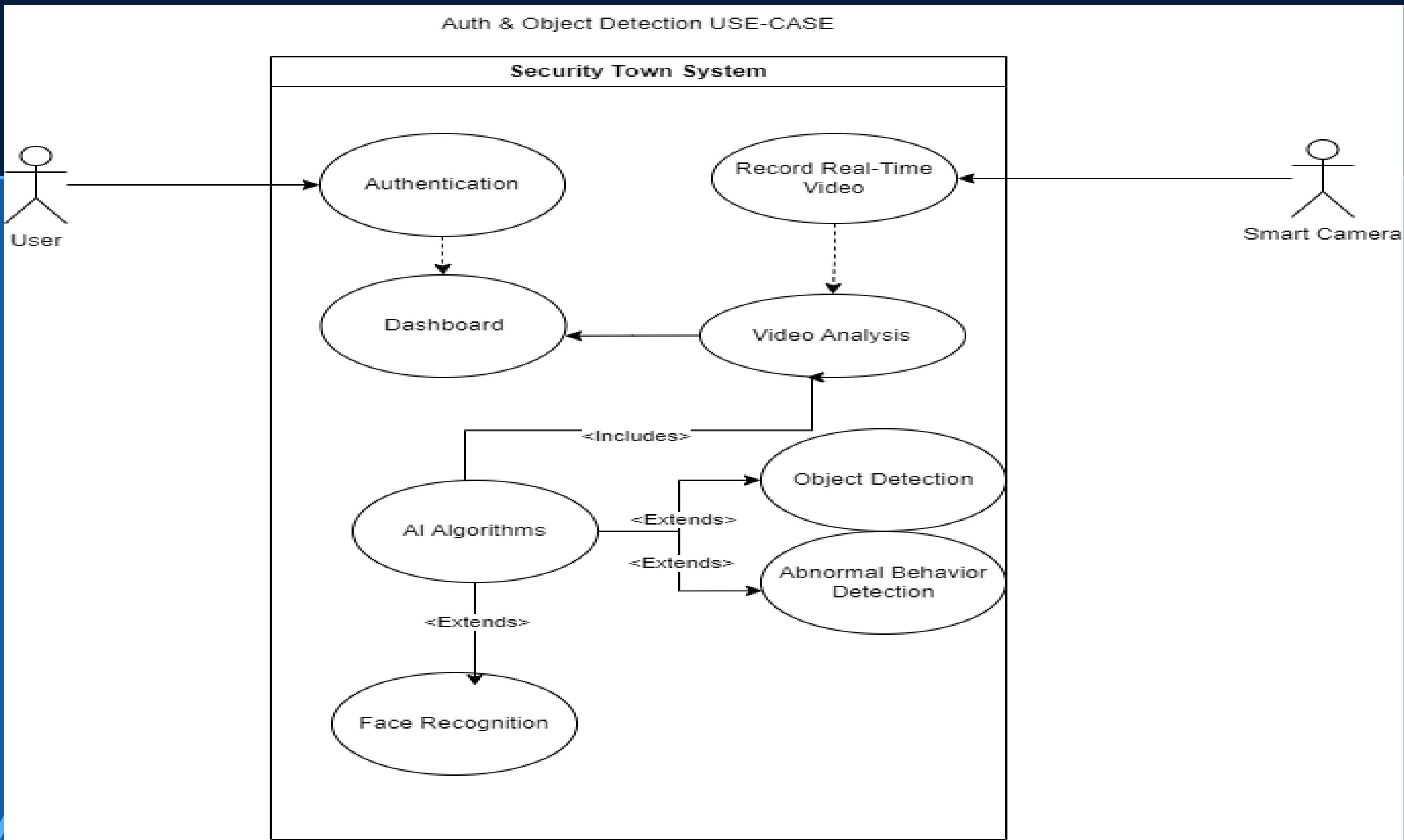


## Innovation

Creative and Innovative , Egyptian Tech Improvemenets



# Use-Case



# Narrative Table

## Use Case

### **Use Case: User Authentication**

**Actor:** User

**Description:** This use case describes the process by which a user authenticates themselves to access the Security Town System.

#### **Preconditions:**

The Security Town System is accessible and running.

The user has an account registered with the system.

#### **Postconditions:**

Upon successful authentication, the user gains access to the system's functionalities.

Upon unsuccessful authentication, the user is denied access and may be prompted to try again or reset their password.

#### **Main Flow:**

1-The user navigates to the login page of the Security Town System.

2-The system presents the user with input fields for username/email and password.

3-The user enters their username/email and password.

4-The user submits the login form.

5-The system verifies the entered credentials:

##### **--If the credentials are valid:**

-The system authenticates the user.

-The system grants access to the user's account and associated functionalities.

-The system logs the user's access activity.

##### **--If the credentials are invalid:**

-The system denies access to the user.

-The system may display an error message indicating that the credentials are incorrect.

6-The use case ends.

### **Alternate Flows:**

#### **Invalid Credentials:**

If the entered credentials are invalid:

-The system denies access to the user.

-The system may display an error message indicating that the credentials are incorrect.

-The user may choose to try again or initiate a password reset process.

#### **Exceptions:**

##### **1-Technical Failure:**

If there is a technical failure during the authentication process:

-The system notifies the user of the failure.

-The user may retry the authentication process later.

##### **2-Account Lockout:**

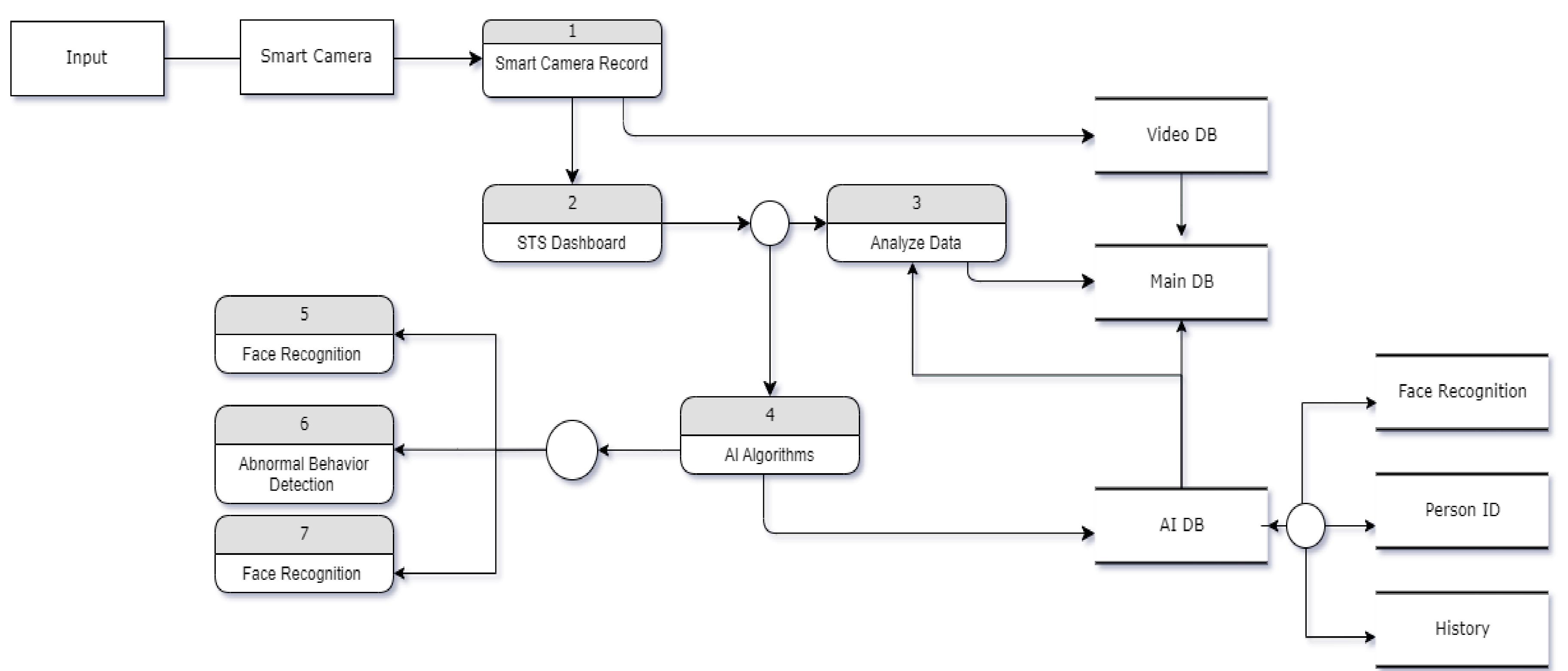
If the user exceeds a certain number of failed login attempts:

-The system locks the user's account temporarily.

-The user may need to contact support or go through a password reset process to regain access.

# Context Data Flow Diagram

## DFD Context, Level 0



# Graphical User Interface GUI

## Live Camera Record Page CCTV



# Graphical User Interface GUI -Cont'd

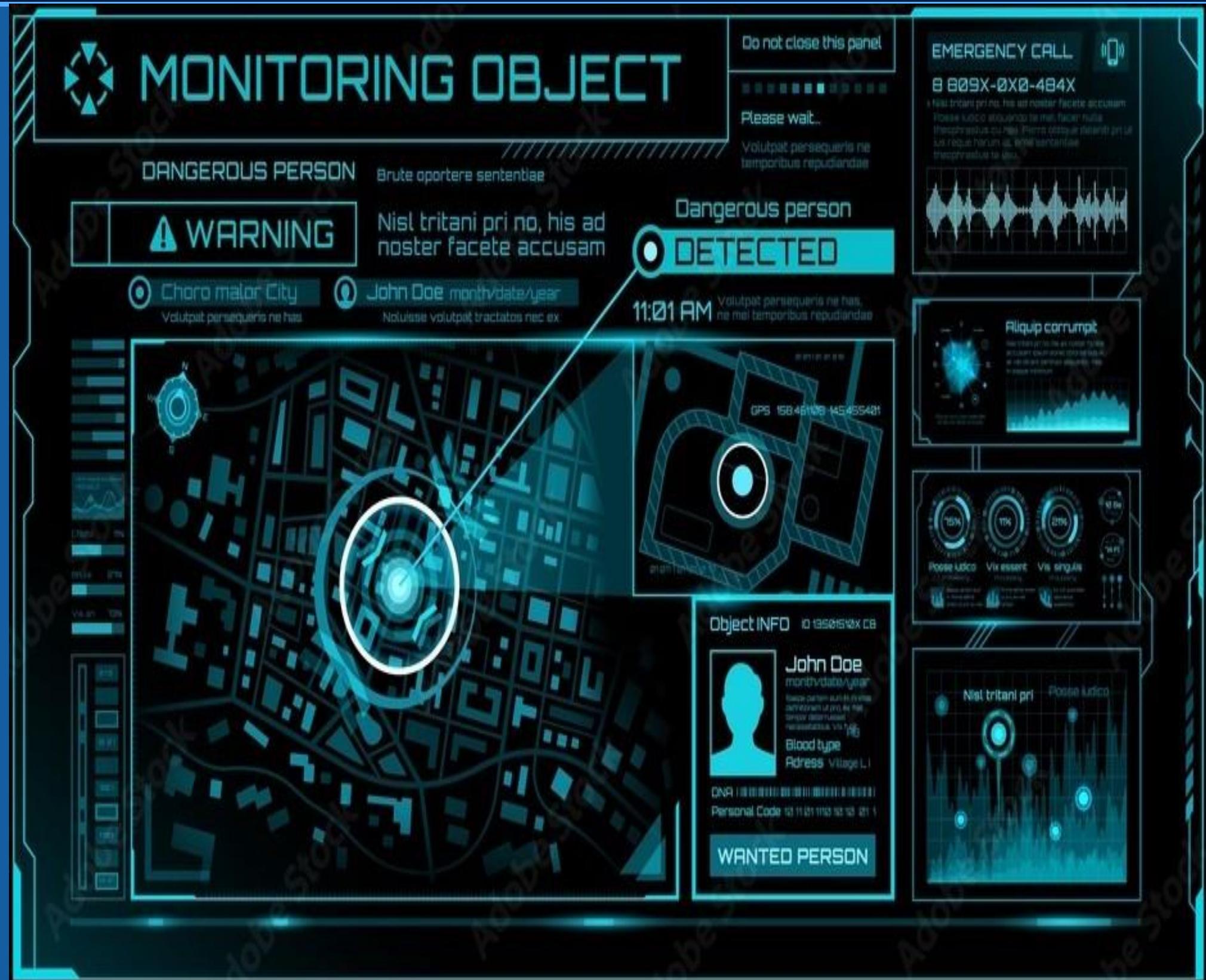
## Monitoring Page For Police Stations

→ Identify Location and Analyze Data based on AI Algorithms

→ Compare Data with Police Database to identify Wanted Persons and Immediately Catch Them

→ Help More Facilities to Enhance their Security and Performance

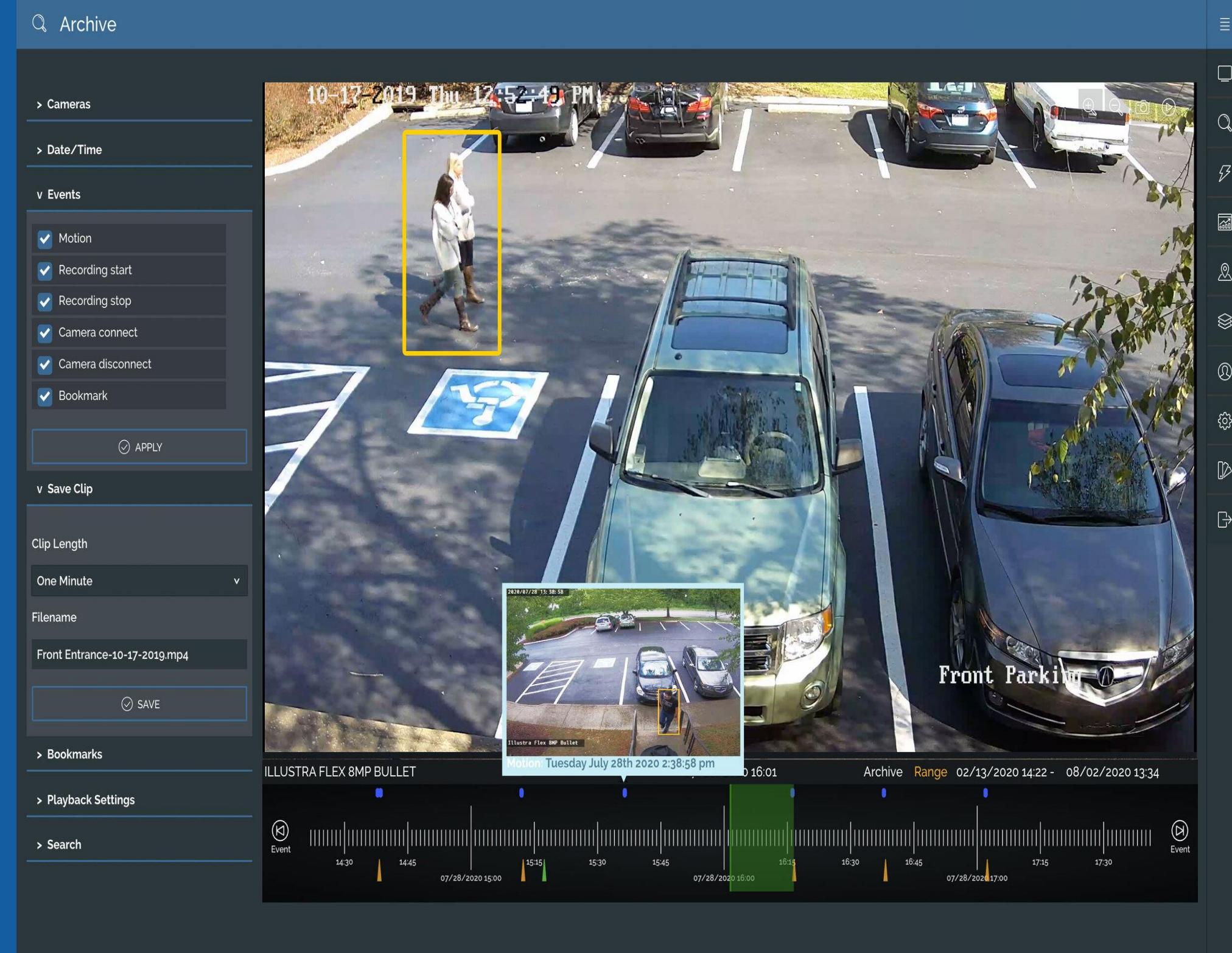
→ Analyze Potential Threats and Prevent it



# Graphical User Interface GUI -Cont'd

## Archive Page

- Search in History of CCTV
- Search for People's History in Specific Area
- Help Trace People if they commit a Crime
- Detect Motion and Abnormal behavior Based on recent visited places (AI)



# Graphical User Interface GUI -Cont'd

## Live Tracking Page

- Find Specific Person in Real-time (Live)
- Face Recognition Person and Compare there Biometrics
- Track its Motion and abnormal Behavior Based on recent visited places (AI)
- Help Trace People if they commit a Crime



# Graphical User Interface GUI -Cont'd

## ALL Pages

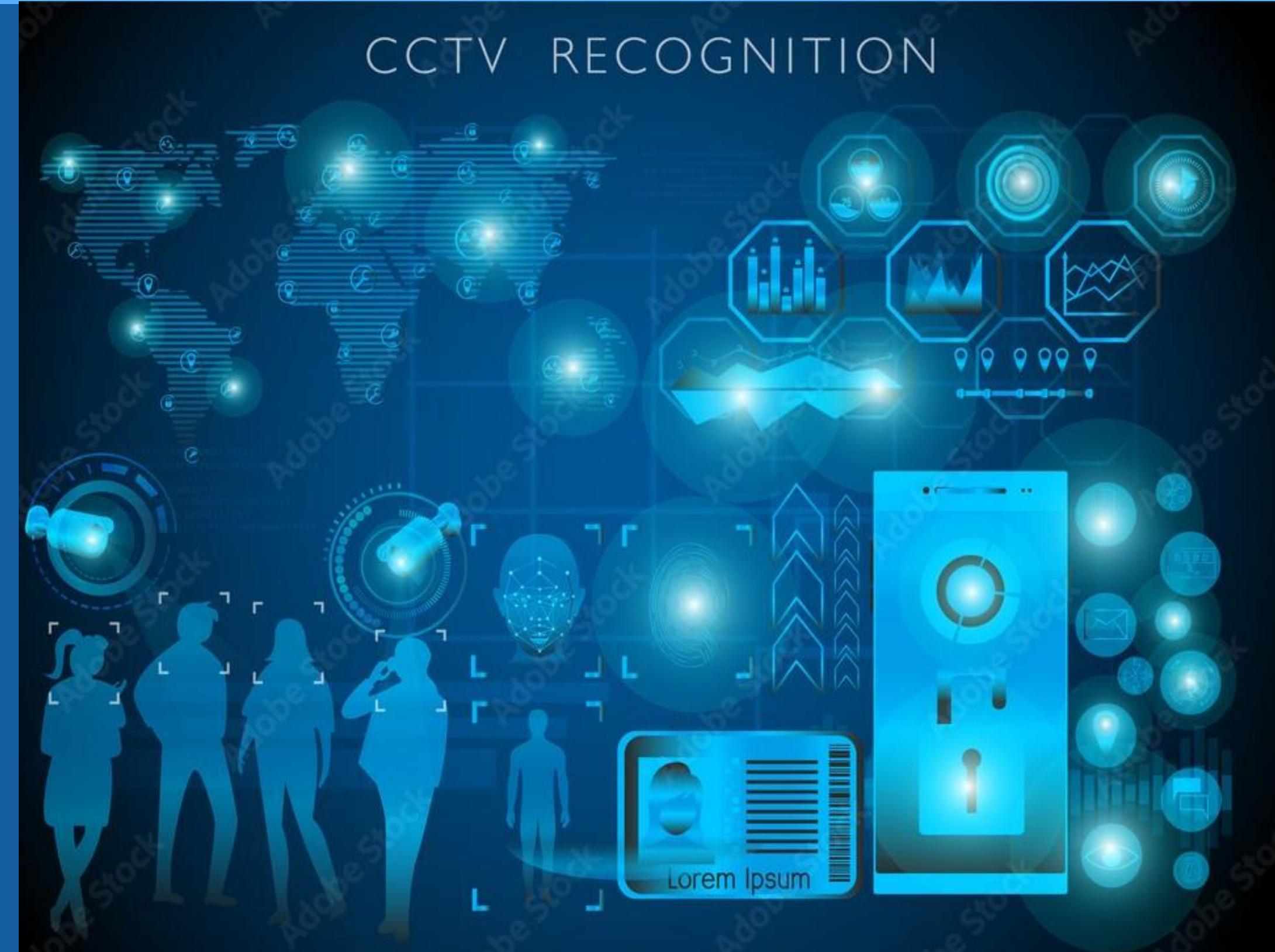
→ Live CCTV Page

→ Monitoring Page

→ Live Tracking Page

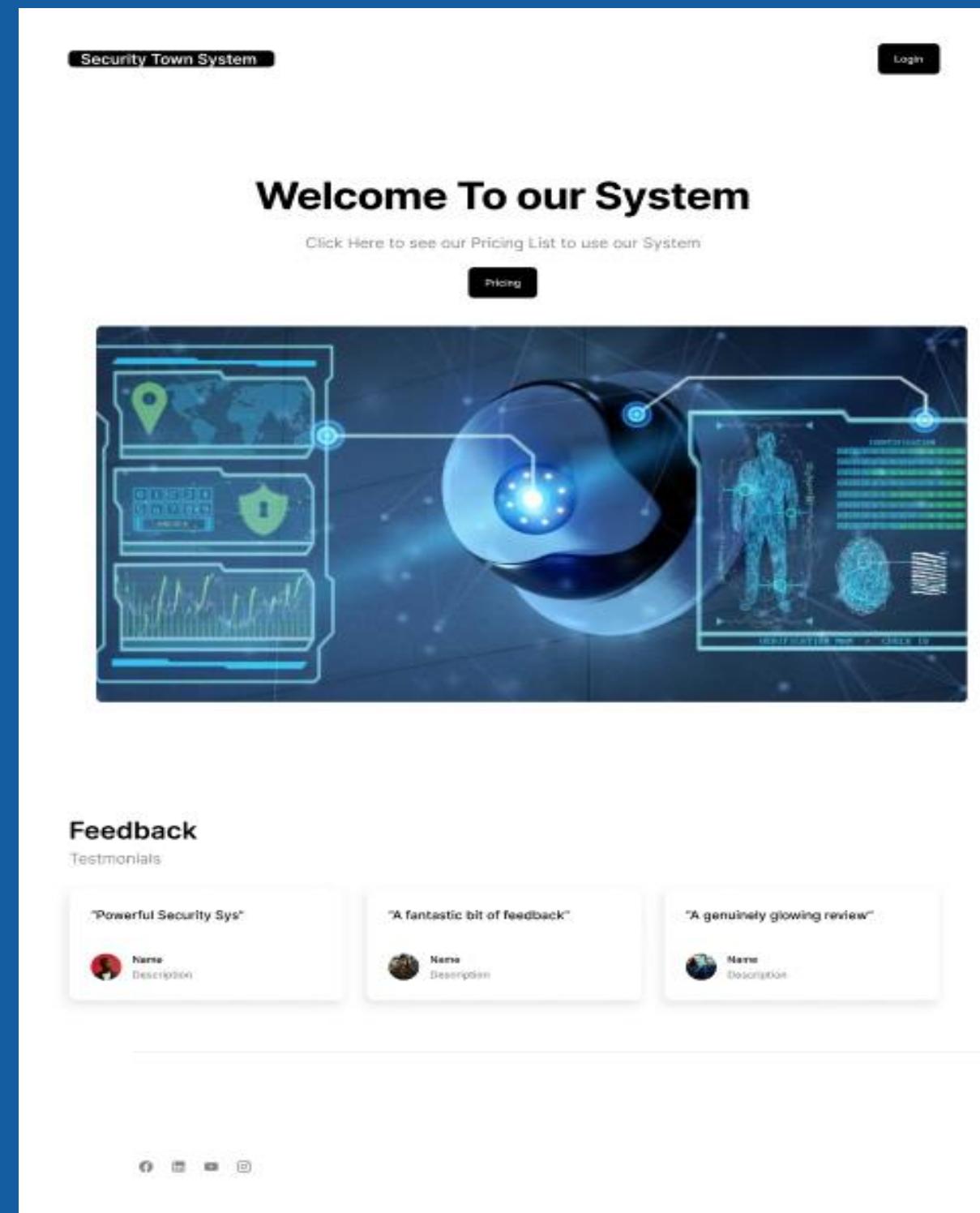
→ Live Data Processing &  
Analysis Page

→ Coming more soon



# Graphical User Interface GUI

## Landing Page



# Graphical User Interface GUI

## Pricing Page

The screenshot shows a Pricing Page for a "Security Town System". At the top left is the system name, and at the top right is a "Login/Singup" button. The main title is "Pricing Page", followed by a subheading: "And a subheading describing your pricing plans, too". Below this are two tabs: "Monthly plans" (selected) and "Annual plans". Three pricing plans are listed in cards:

Plan Name	Price	Features
Plan 1 name	\$500 per month	Normal Analysis Face Recognition V3 Smart Camera Installments Smart Dashboard
Plan 2 name	\$1000 per month	Advanced Data Analysis Face Recognition V5 Smart Camera V2 with IOT 24/7 Technical Support
Plan 3 name	\$2000 per month	Track Person System Abnormal Behaviour Detection AI Powered Assistant Smart IOT Integration

Each plan card has a "Select" button at the bottom. Below the plans is a section titled "Heading for FAQs" with three expandable questions:

- What's the most frequently asked question? (with a plus sign)
- Answer the frequently asked question in a simple sentence, a longish paragraph, or even in a list. (with a plus sign)
- How about a second one? (with a plus sign)
- And a third? (with a plus sign)

At the bottom are the "Smart Town System" logo and the acronym "STS".

# Graphical User Interface GUI

## About Page

Security Town System Login/Register

### About

Subheading for description or instructions

Secure Your Future with Security Town System  
Unlock the power of comprehensive protection with our cutting-edge Security Town System. Designed to safeguard your home and loved ones, our innovative solutions inspire a sense of unwavering confidence and peace of mind.

Envision a world where your safety is the top priority. Our state-of-the-art security system seamlessly integrates the latest technologies, creating a fortress of defense tailored to your unique needs. From advanced surveillance cameras to intelligent alarm systems, every element works in harmony to keep you and your family secure.

At the heart of Security Town System lies a team of dedicated professionals, driven by a passion for ensuring your well-being. Our experts meticulously craft customized plans that address your specific concerns, empowering you to take control of your personal safety.

Embark on a journey of empowerment with Security Town System. Elevate your sense of security and unlock a future where you can thrive without worry. Explore our comprehensive solutions and discover how we can transform your home into a sanctuary of protection. Together, let's build a safer, more resilient community.

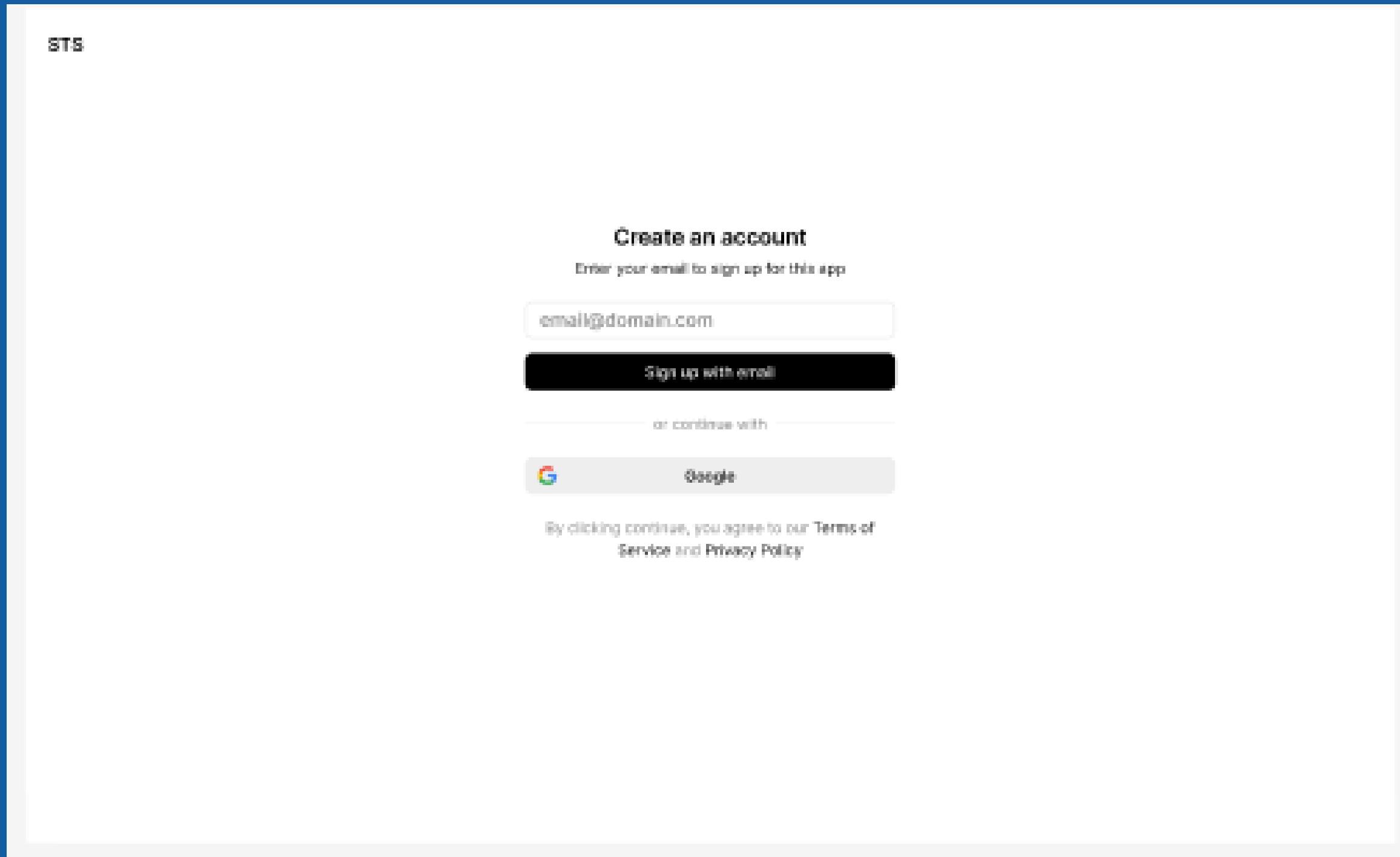
Visit our website today and take the first step towards a secure tomorrow.

Security Town System

Chat

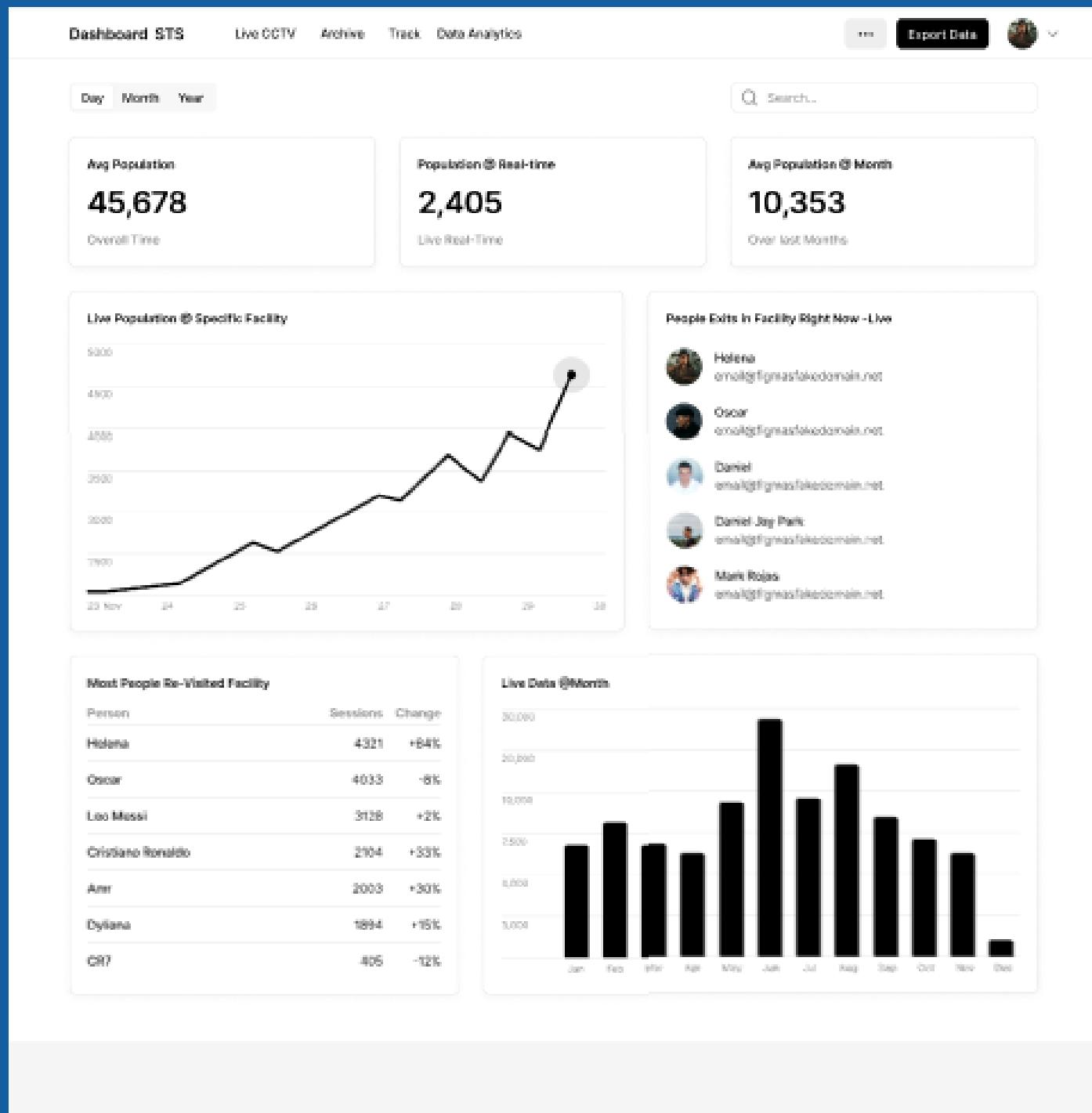
# Graphical User Interface GUI

## Auth Page



# Graphical User Interface GUI

## Dashboard Page



# Graphical User Interface GUI

## CCTV Live CAM Page

Dashboard CCTV   Live CCTV   Archive   Track   Data Analytics   ...   Export Data  

General   Camera 1   Camera 3   Camera 4   More...  

Population @ Real-time  
**2,405**  
Last Refreshed

Object Detection   Night Vision   Infrared Vision   Track   More...

People Inside Facility Right Now - Live

- Helena [hello@grayscaledomain.net](mailto:hello@grayscaledomain.net)
- Oscar [oscar@grayscaledomain.net](mailto:oscar@grayscaledomain.net)
- Daniel [daniel@grayscaledomain.net](mailto:daniel@grayscaledomain.net)
- Daniel Jay Park [djp@grayscaledomain.net](mailto:djp@grayscaledomain.net)
- Mark Rajas [mark@grayscaledomain.net](mailto:mark@grayscaledomain.net)

Live Visitors

Person	Sessions	Change
Helena	4521	+5%
Oscar	4022	-2%
Leo Messi	3128	+2%
Cristiano Ronaldo	2104	+3%
Ari	2009	+3%
Dylan	1886	+15%
C87	405	-12%

Live Population @ Specific Facility

# OUR TEAM



Mohammed  
Amin Helal  
Section 15



Mohammed  
Ashraf Esmail  
Section 15



Mohammed El-  
Sayed Mohammed  
El-Sayed  
Section 15



Fawzy El-Sayed  
AbdelSalam  
El-Nbtiti  
Section 13



# Thank's For Watching

Connect with us.

