

SeeU

Making public places safe one frame at a time.



Security Surveillance

Assistant software to
fasttrack justice system
PR430

Manpower

Too much dependence on physical presence of individual for maintainance of law and order

Cost

Maintaining law and order for an expanded system too high.

Early redressal

On time threat monitoring with time and location stamp not present in present state.



Team: BigBrother

Domain: Smart cities

Organization: Department of
Science and Technology

Team Leader:

Parth Sarthi Prasad

2018UCO1670

Design a system to capture face, expression and gesture of targeted persons (Criminals) through distributed CCTV System and maintaining it in a database along with time and location stamp. The database so compiled to be used to identify suspects from video clips of crime related CCTV footages captured series of CCTV Systems located on routes and close to scene of crime .

Use_case

Traffic maintenance

Safe streets

Women safety



The Problem

Delhi

Is it Really safe as national capital?

1.9 Crores

TOTAL POPULATION

2,36,476

CASES REGISTERED

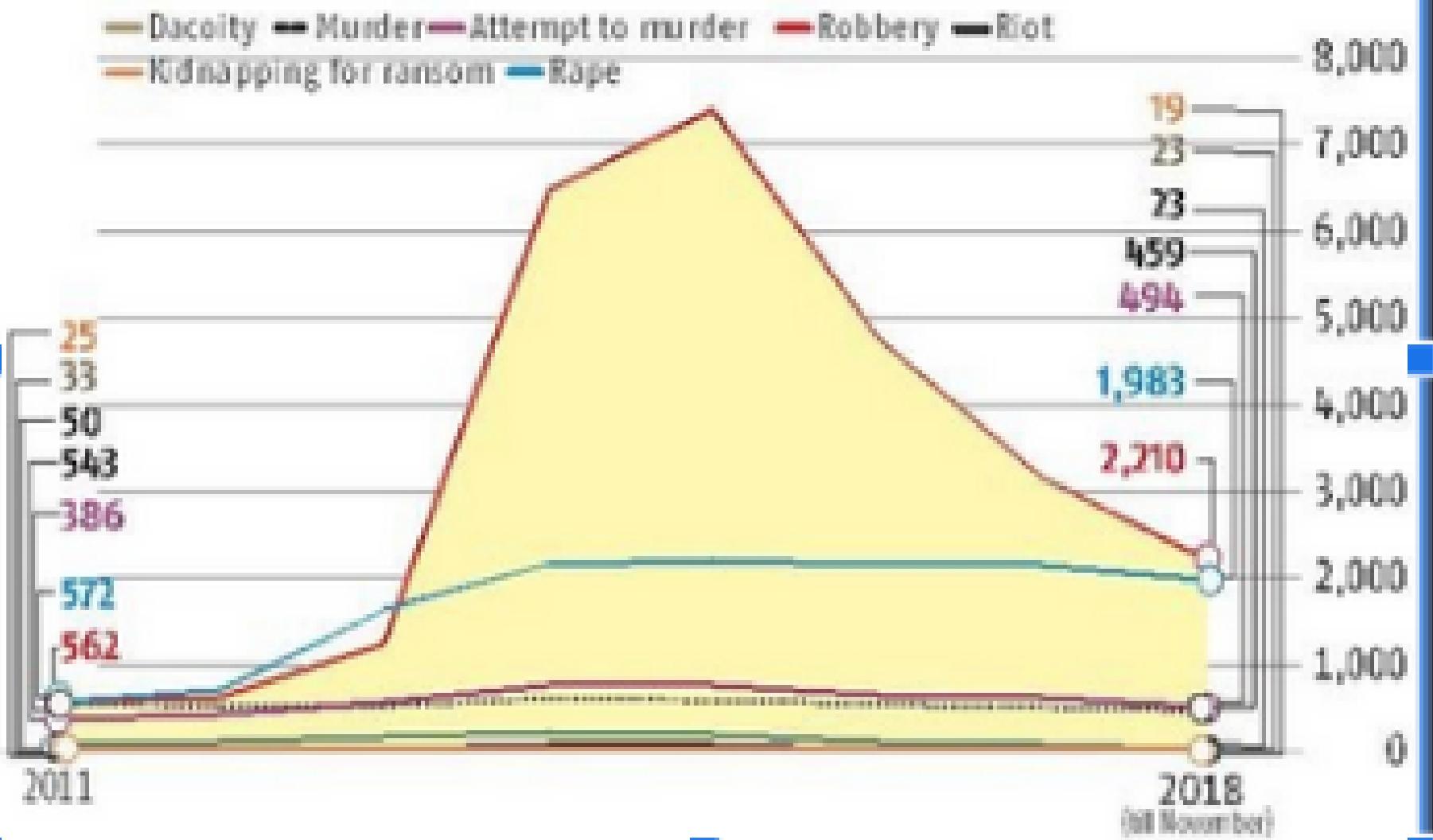
33 %

CRIME AGAINST WOMEN (NATIONAL CRIME
RECORDS BEAUREAU DATA)

Data

year 2018

Is the national capital safer?



MISSION

Use of technology and artificial intelligence is opening the gates to the future ,our model can play a major role so one gets hurt on our watch and changing the law enforcement system forever.



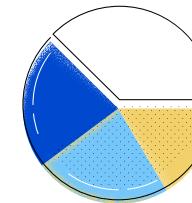
Solution

Live Streaming +
Location Time Stamp +
Feature Detection



Static Camera

SENDS VIDEO WITH
TIMESTAMP AND LOCATION



Web Server

SAVES LIVE SURVEILLANCE
VIDEO AND USE AI.



Anomaly Detection

GIVES A THREAT SCORE
TO EACH FRAME AND
VERIFIES FROM CRIMINAL
DATASET



On Time Response

IF THREAT TOO HIGH ,
ALERT AUTHORITIES FOR
APPROPRIATE ACTION

Tech Stack

1/2

Machine Learning:

Deep Learning
TransferLearning
CNN
LSTM
One Shot
Learning
Siamese Network



Tech Stack

2/2

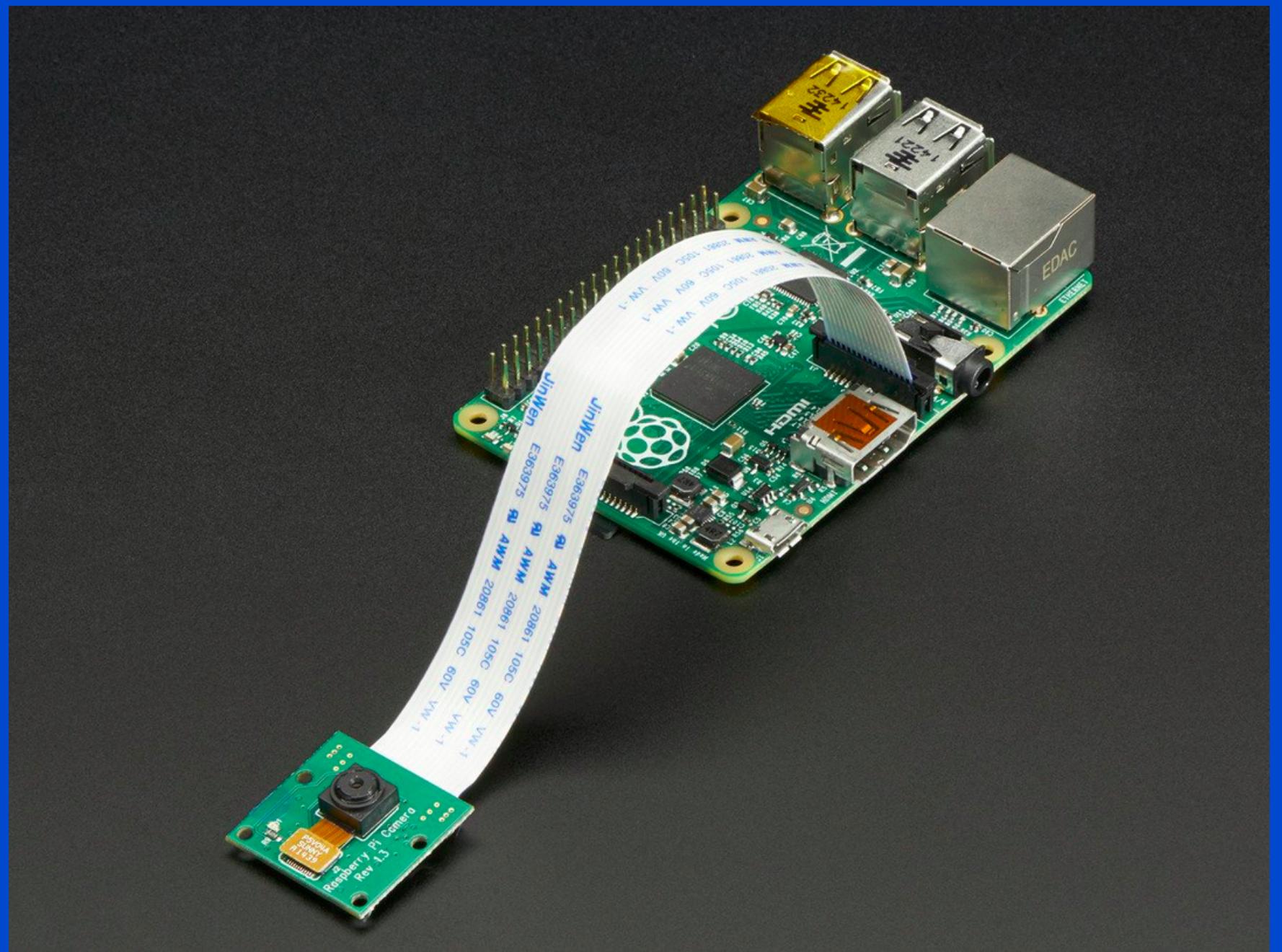
Web Development

MERN
IoT
OAuth
RTMP
Ffmpeg
NGINX
Leaflet



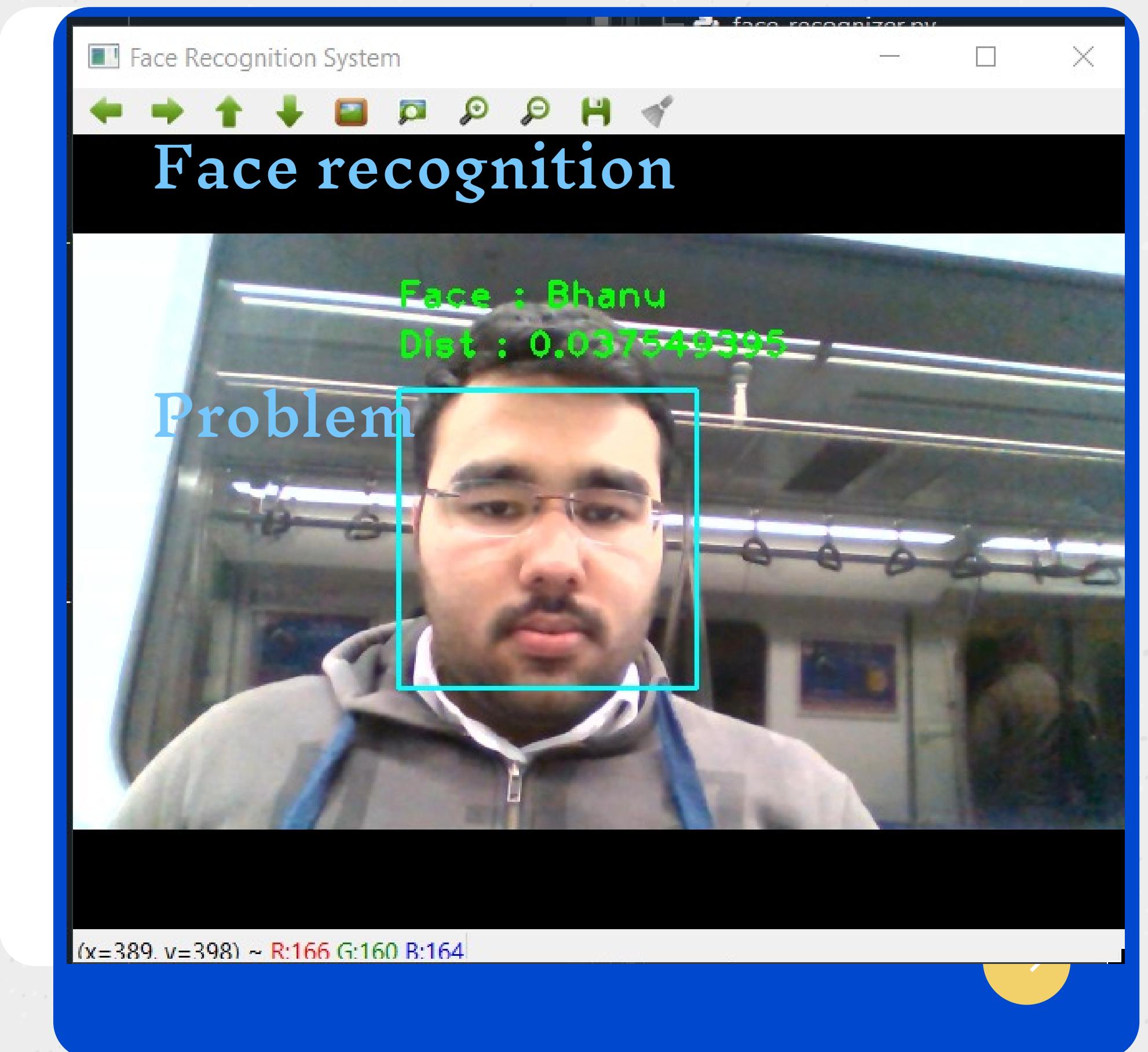
Implementation (1.1)

One-shot camera used



Implementation (1.2)

Screenshots from our work

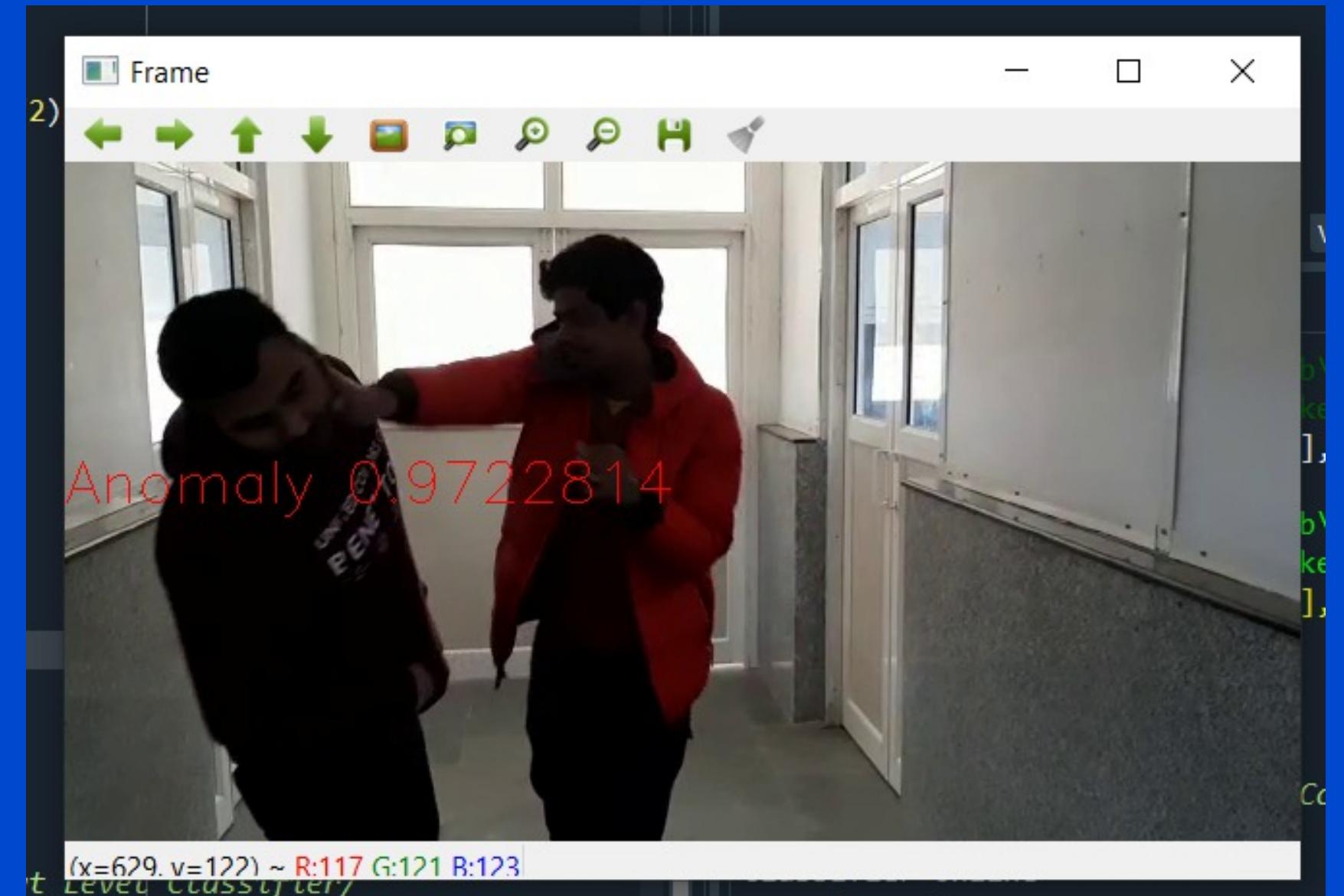


Implementation(1.3)

Normal Score

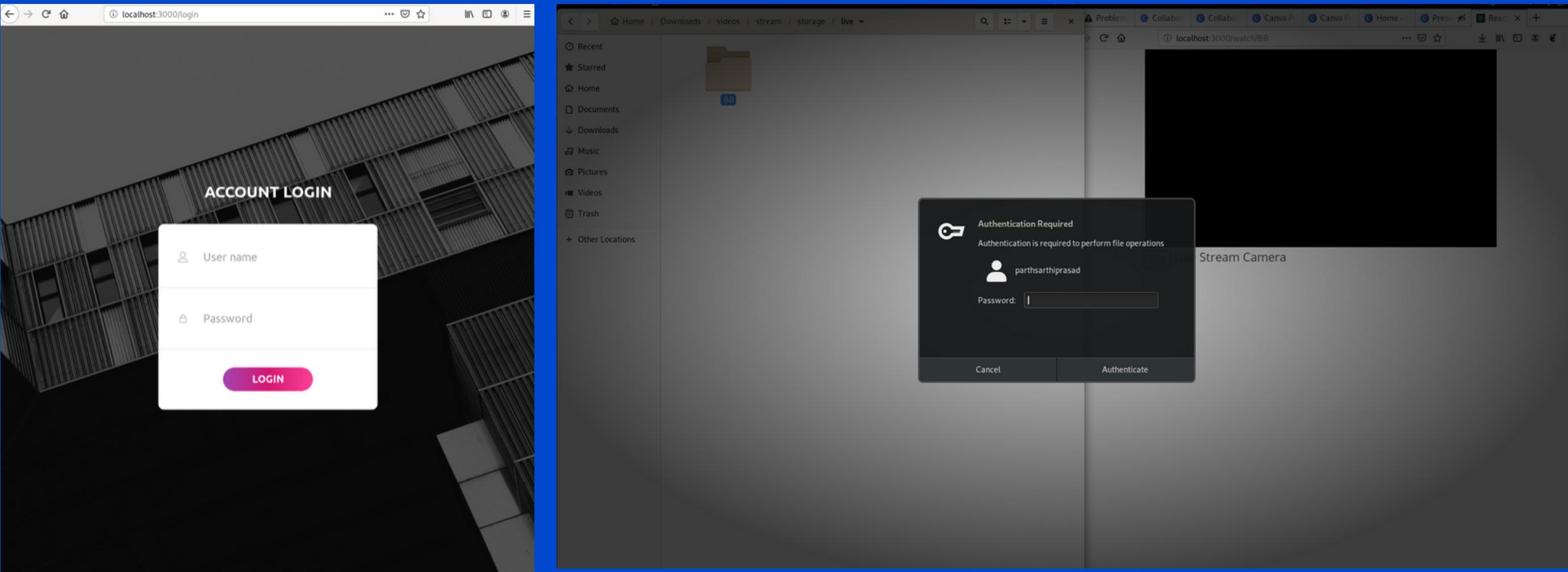


Anomaly(i.e THREAT)



Implementation(1.4)

WebApp Security



Potential Investors and Donors

Who are the customers you want to cater to?

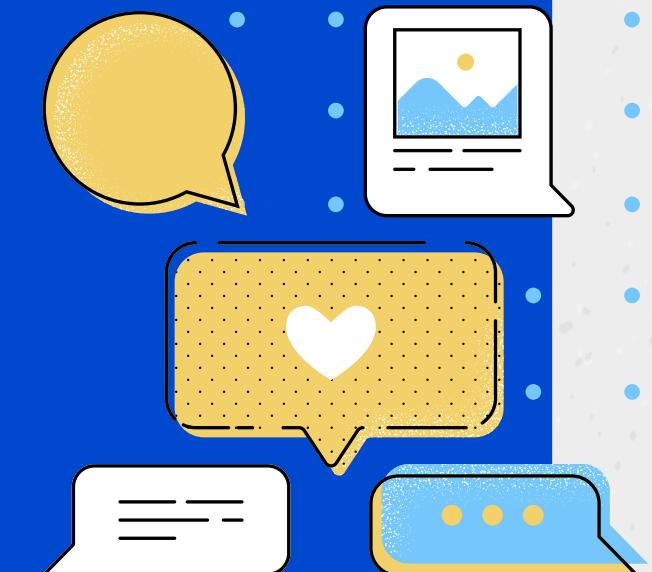
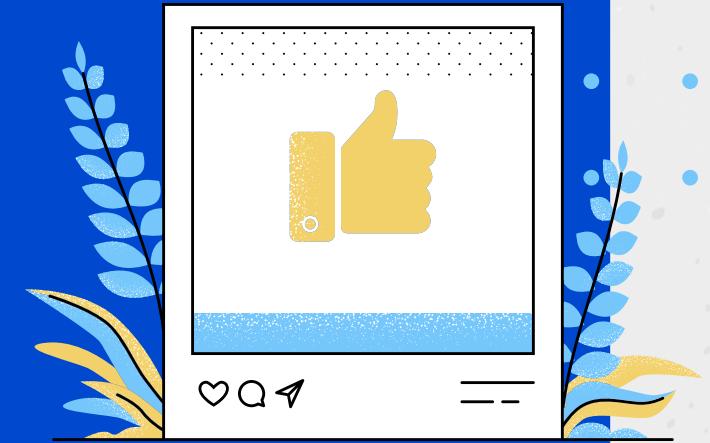
City Governments:

A safe and secure city would ensure more trust in the government and consequently affect the image of the city and its economy. example in Airports , Govt. institutions , etc

Media outlets:

They would have some access to the statistics and footages from the drones.

Companies trying to better their image in terms of CSR.



Challenges

Security and false alarms• Operating in an unpredictable environment• Dependability of a computer vision based solution• Data storage• Access and management

FUTURE SCOPE

- Edge Computing for faster processing
- Higher Security Protocols for Transmission
- Availability on multiple platforms



Why US?



SeeU as a product with present use case can work to solve major problems be it security and threat detection ,

Already implementation present in countries like Australia and USA.

Faster and better approach of integration of man-power and technology in 21st century towards Smart Cities in India.

Contact Us

Parth Sarthi Prasad (2018UCO1670)
Bhanu Tokas(2018UCO1646)

