

# SeeU

Making public places safe one frame at a time.



PITCH DECK V 1.0

# Security Surveillance

Assustant software to  
fasttrack justice system  
PR430

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## Manpower

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

## Cost

Maintaing 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.



# PR430

Team: BigBrother

Domain: Smart cities

Organization: Department of  
Science and Technology

Team Leader: Amandeep Kaur  
(2017UCO1616)

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The problem is aiming at detecting unusual events from surveillance videos. All the videos are shot using single static camera.

## Use\_case

Traffic maintainance

Safe streets

Women safety

Jaw and order



# The Problem

Delhi

Is it Really safe as national capital?

1.9 Crores

TOTAL POPULATION

2,36,476

CASES REGISTERED

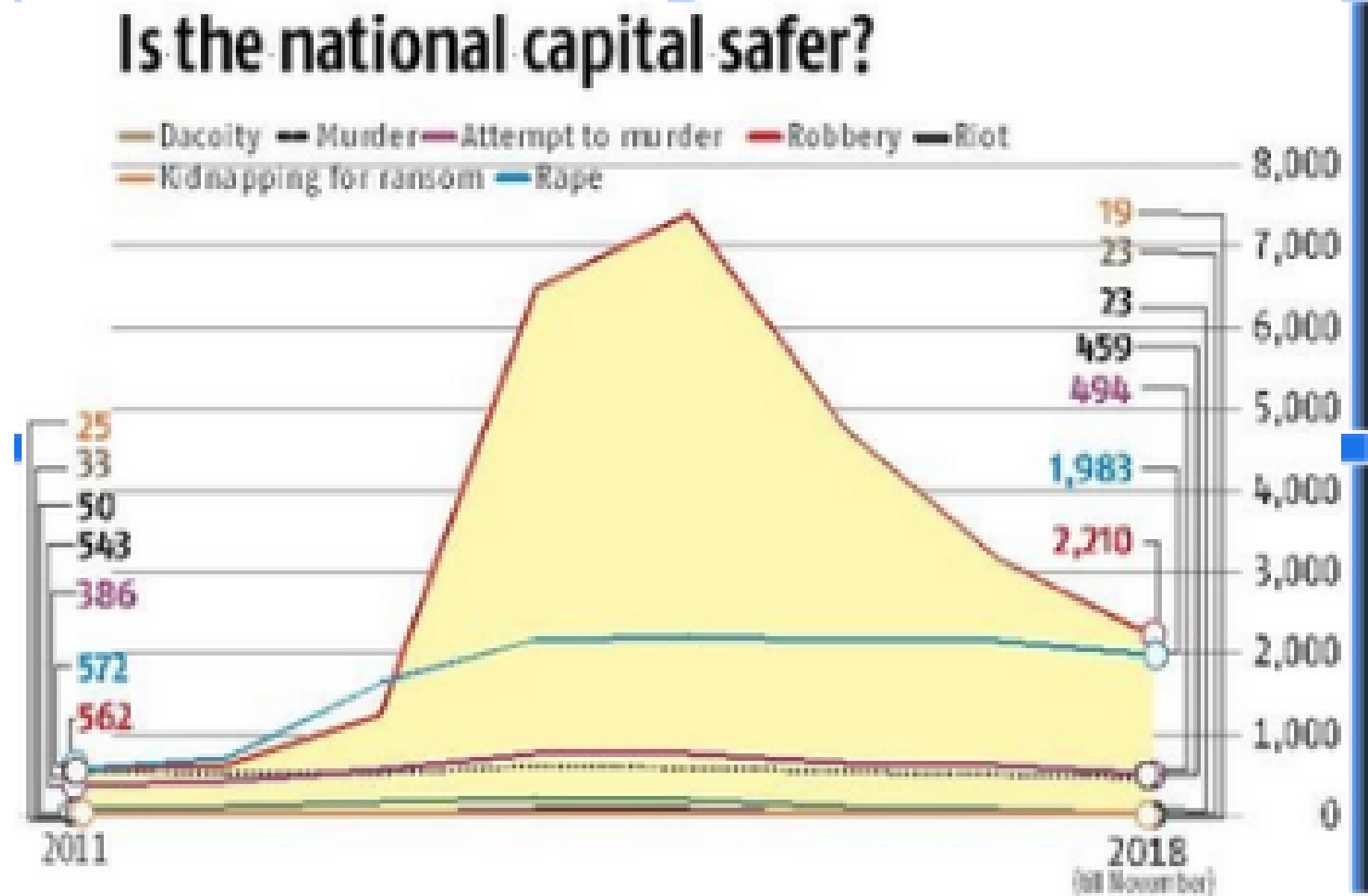
33 %

CRIME AGAINST WOMEN (NATIONAL CRIME  
RECORDS BEAUREAU DATA)



# Data

year 2018



# MISSION

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



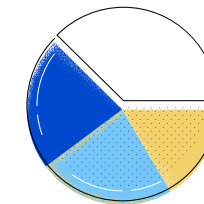
# Solution

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



Transfer Learning



CNN

LSTM

One Shot

Learning

Siamese Network

# Tech Stack

2/2

Web Development



MERN



IoT



OAuth

RTMP

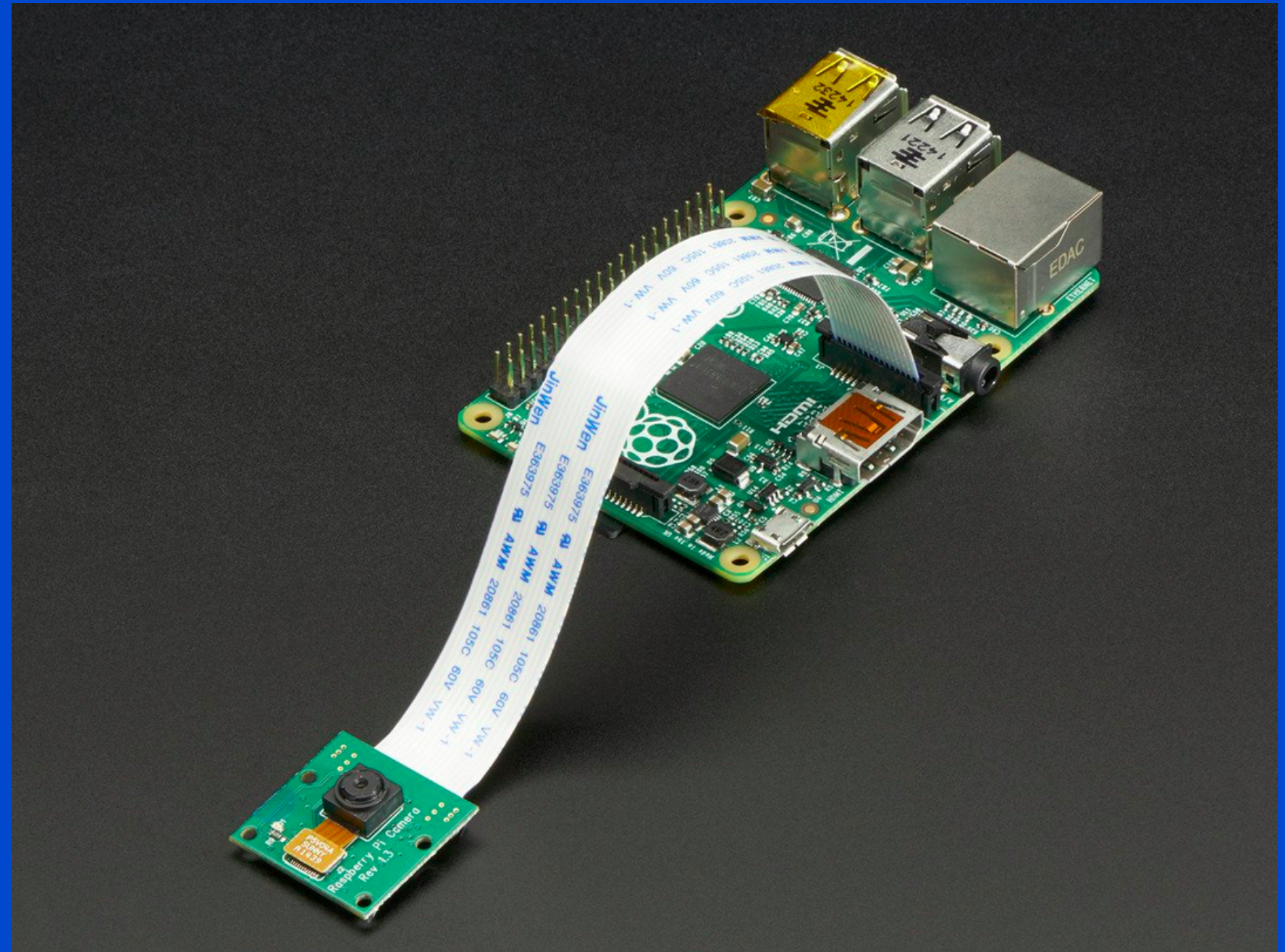
Ffmpeg

NGINX



# Implementation (1.1)

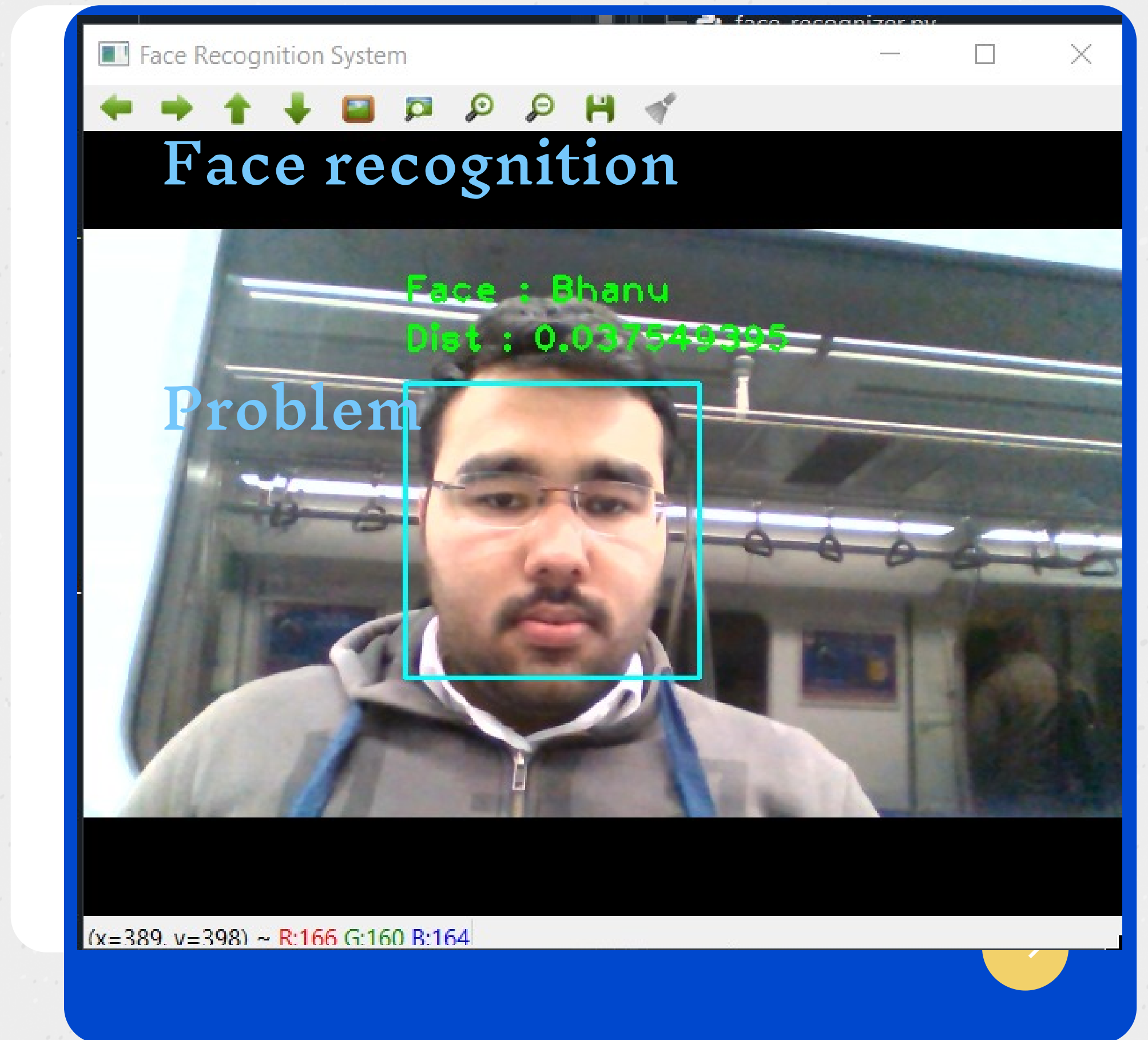
One-shot camera used





# Implementation (1.2)

Screenshots from out work

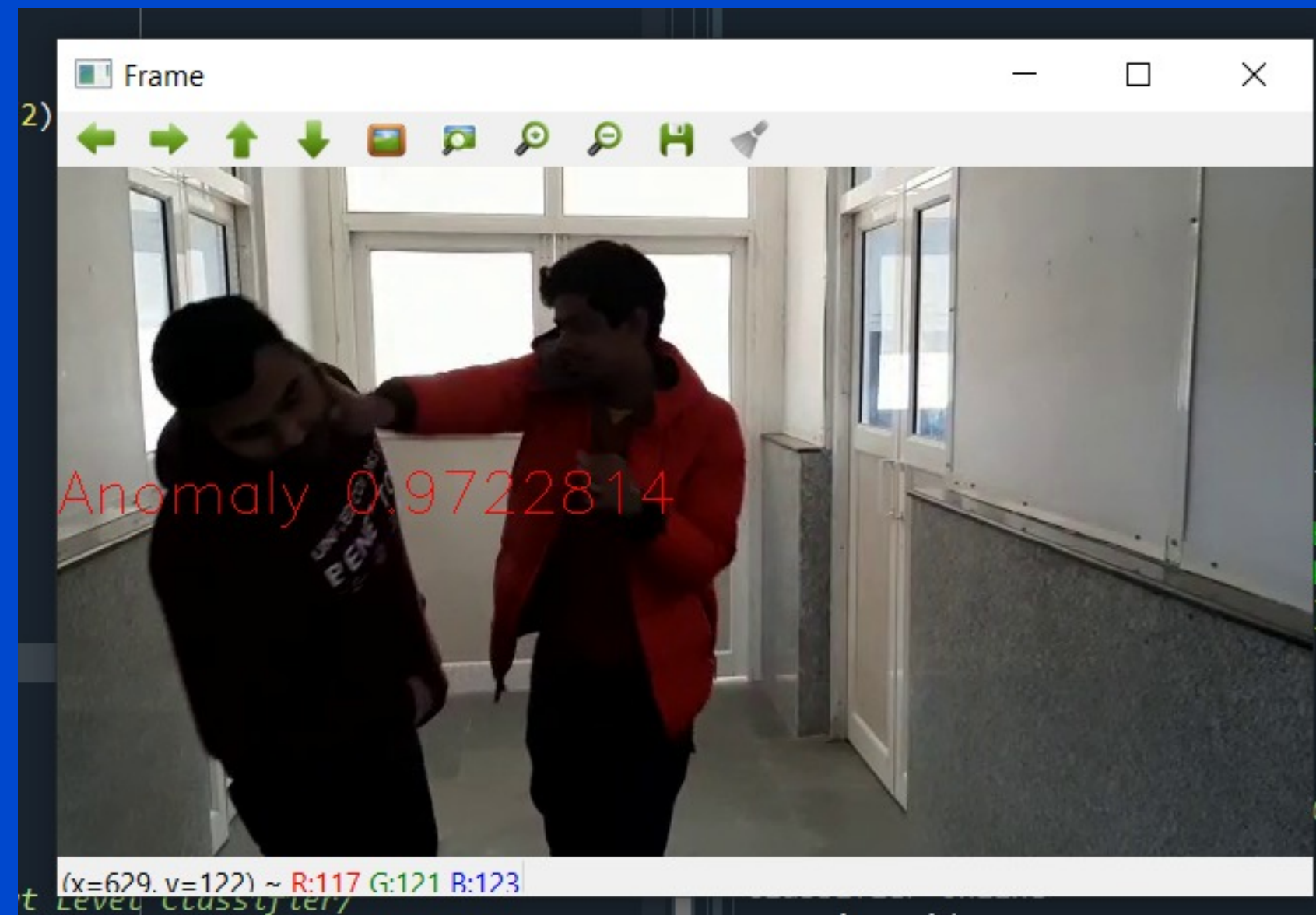




# Implementation(1.3)

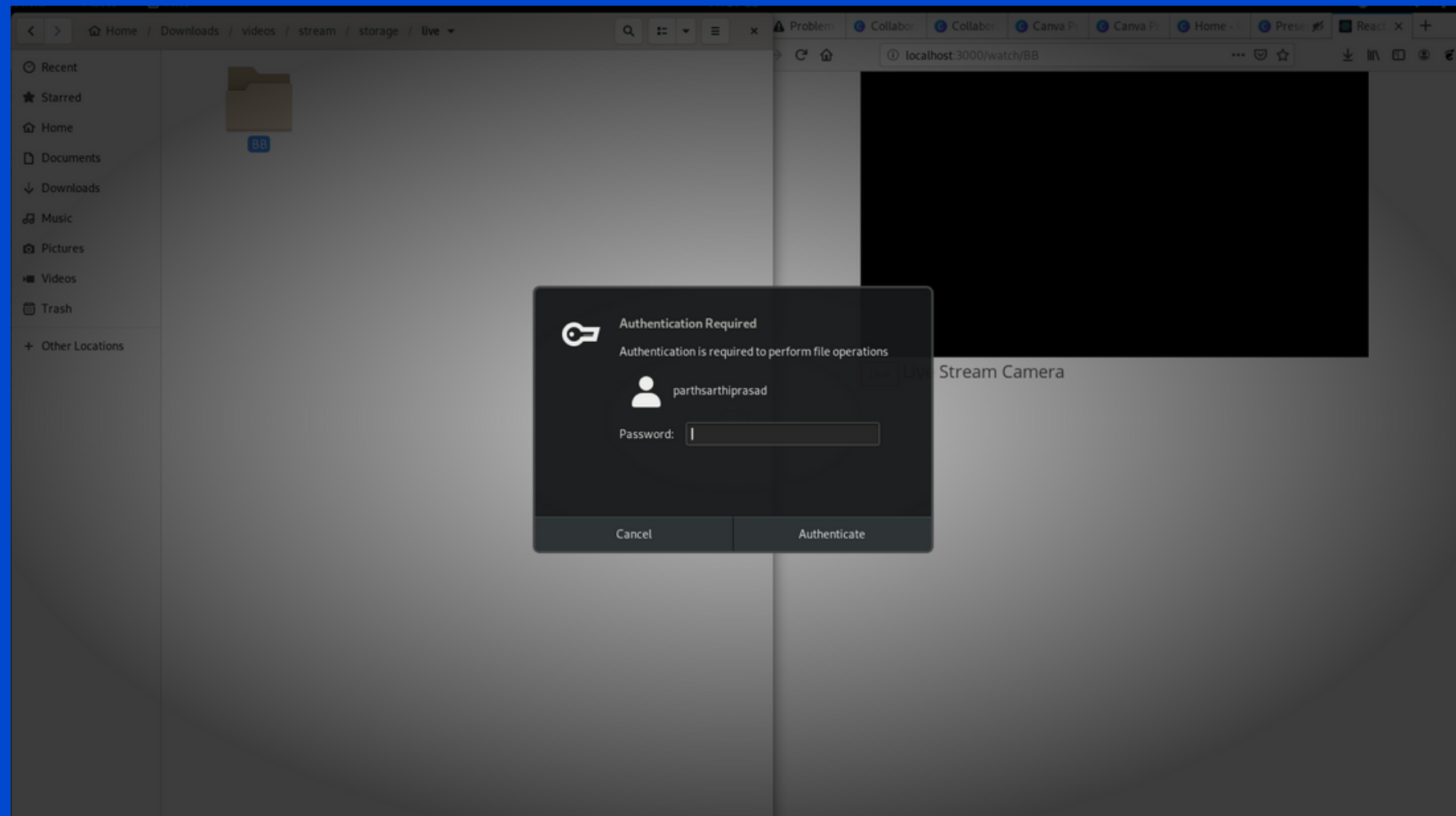
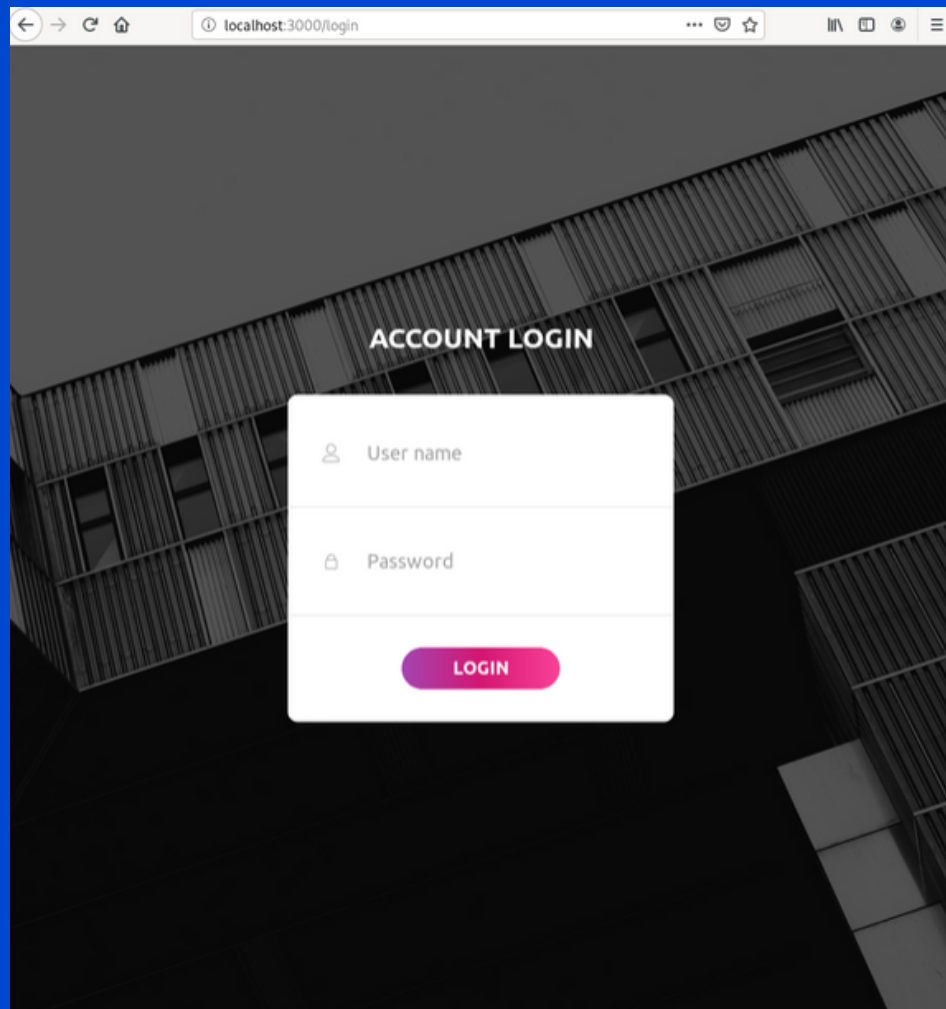
Normal Score

Anomaly(i.e THREAT)



# Implementation(1.4)

## WebApp Security





# 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

PITCH DECK V 1.0



# Why US?



PITCH DECK V 1.0

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

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