MES COLLEGE OF ENGINEERING, KUTTIPPURAM
DEPARTMENT OF COMPUTER APPLICATIONS
20MCA246 – MAIN PROJECT

PRO FORMA FOR THE APPROVAL OF THE FOURTH SEMESTER MAIN PROJECT

(Note: All entries of the pro forma for approval should be filled up with appropriate and complete information. Incomplete Pro forma of approval in any respect will be rejected.)

Main Project Proposal No : _____ *(Filled by the Department)*	Academic Year : 2021- 22 Year of Admission : 2020

1. Title of the Project : Video Surveilance
2. Name of the Guide : Prof. Hyderali K
3. Student Details (in BLOCK LETTERS)

Name	Register Number	Signature
SAYUJ A P	MES20MCA20-46	

Date: 16/04/2022

Approval Status : Approved / Not Approved

Signature of Committee Members

Comments of the Guide Dated Signature

Initial Submission :

First Review :

Second Review :

Comments of the Project Coordinator Dated Signature

Initial Submission:

First Review

Second Review

Final Comments :

Dated Signature

Introduction:

This is an innovative approach to video surveillance software project. We normally find video camera? in banks and other organization that continuously record and save the recorded video footage for days or months. This utilizes a lot of battery life and storage capacity to store these large video footage. Well this video surveillance software is an enhanced version of organization security that continuously monitors but only records unusual changes in the organization. These unusual changes may include theft detection or fire detection in offices. It may also include rodent detection in bakeries or restaurants after closing.

Objectives:

The system catches any unusual activity it takes steps and informs the user by:
1. Sending an notification to the user about an unusual activity.
2. Sending an image of the activity to the users Email so that he may check the problem seriousness and react accordingly.
The main advantage of the system is that it instantly alerts the user about any suspicious activity at the place and requires much less or no storage space as compared to the traditional surveillance system.

Problem Definition:

With increase in digital communication, multimedia data such as digital images, videos etc. we require fast and robust security systems. To achieve high security, encryption is one of the way to protect our data from unauthorized users. In this paper, the proposed model aims to provide security to the images using a combination of image encryption and image stitching techniques. The use of chaotic methods in the encryption makes it more difficult for the attackers to decrypt the image. Every image to be transferred is first partitioned and then each part is encrypted and sent to the receiver. That is why a person with a single part or two parts of the image will not be able to use that image. Image stitching algorithm used on the receivers end makes it easy for him to generate the original image. Image encryption along with image stitching provides a double layer of protection to the image. The need for this approach is to achieve security and privacy during the communication.

Basic functionalities:

- **Admin**

- Login
- Add and manage security
- View notification
- View complaint and sent reply
- View feedback

- **Security**

- Login
- View notification alert

- **User**

- Login
- Register
- View notification alert
- Sent complaint
- View reply
- Sent feedback

System Specification:

SOFTWARE REQUIRMENTS

- Operating system : Windows 7 or Above, Android
- Technology used : Python,java
- IDE : PyCharm,/Android Studio
- Framework : Flask
- Database : MySQL

HARDWARE REQUIRMENTS

- Processor : 64 bit
- RAM : Min 3 GB
- Hard Disk : 10 GB