**ALLIGATOR**

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**Team Details**:

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| --- | --- | --- | --- |
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**Department of Computer Applications**

**4th Sem MCA - IOT Project**

**Synopsis**

**Project Title**: Alligator

**Abstract**: The objective of the project is to monitor hostile activities in the militarized zone. Therefore, as soon as the camera detects some activity within the range, it starts recording the surrounding area. If it detects some suspicious activity, the camera will start focusing on the area under suspicion. The camera can also do face detection, match with the data stored in the database and check whether the person is hostile or not. It will immediately send the information to the authority to take necessary actions. The camera can also store the collected information and visuals on the cloud for further investigation.

**Key Features**:

1. The objective of the project is to secure the militarized zone smartly with the effective use of resources at a lower cost.
2. Since the camera is activated on detection of motion, so the resource consumption is lesser compared to existing systems.
3. Storage consumption is lesser as the camera is activated only on motion.

**Software Requirements**:

Raspbian OS

**Front end:** Python 3, WordPress

WIA

Twilio

Motion Detection Software

SMTP Protocol

**Hardware Requirements**:

Raspberry Pi Model 3B

Raspberry Pi Camera Module

Ultrasonic Sensor

Breadboard

Jumper Wires

A housing for the camera