**MOTION DETECOR AND INSTANT ALERTOR**

ABSTRACT:-

This project report is about human motion detection and instant alert Desktop security system that uses a webcam connected via a USB cable. Security is a measure of how safe a person or premises are and it is a very key factor for business success and peace in the environment. As a result of independent components in current systems like CCTV surveillance cameras, there was a lack of united system to achieve real time surveillance and real time notification thus a need for us to Develop a stand-alone system that base on human motion detection using a webcam to initiate video recording and sending a real time notification. These system components where implemented using python programming language to implement image processing algorithms and to design both front and back end application we have used java for database connectivity, email for notification, JDBC connectivity and MySQL database Server for database management for the application as a whole .Human motion detection approach used here is background/ image subtraction technique. This algorithm provided a better way of detecting motion in a static background. The system has been tested under different scenarios that is under good internet connection, day lighted rooms, electric lighted rooms, and in darkness. As the result shows in chapter 5, it is concluded that this system needs a well-lighted area with a good internet connectivity and a static background.

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