

VIDEO STREAMING USING CELL PHONE WITH SECURITY

Abstract

This Project is all about to provide easily affordable security system for an office or house or bank or any important room where you want to have security by connecting IR Transmitter and Receiver at the entrance of the room. If anytime, the IR Rays are cut, The PC is intimated about the same. Immediately, an SMS is sent to the owner of the setup regarding the intrusion such that the owner can open the application in his cell and view the live video of the happenings. Also, an alarm is activated at the PC's end to alert the people around regarding intrusion.

This project is intended to view live video recording through a mobile. This application allows the mobile user to track the activities happening at a particular location. Take the snapshots of the video recorded through webcam in a mobile. Store these snapshots as images in the mobile. Images can be stored in different formats subjected to the a particular selected format. To display the time with the image when it was captured. in the GPRS enabled Mobiles

Modules of the project

1. Serial Port Reading
2. SMS Handling
3. Video capturing
4. Server
5. Mobile client

1) Serial Port Reading

The serial port reading is done to detect interruption in the security system. Connected to the communication port is an IR reader .The IR reader is a device which is a combination of two devices

- IR transmitter
- IR receiver

The IR transmitter keep transmitting signals which in turn is received by the IR receiver. The program code keeps checking this reception of signals. If at any instant the IR receiver does not receive the signal from the transmitter, that is if the continuous flow of signal is broken then the program triggers the rest of the code. The breaking of the signal occurs when some interruption occurs and the IR ray is cut. The IR reader is an electronic circuit

2) SMS Handling

Once an interruption occurs the program is triggered and an SMS is send to the owner of the entire setup to alert him. The SMS is send through the GSM modem which is also connected to the communication port.

3) Video capturing

Video capturing is done to take the video once an intrusion is detected. A web cam is used to capture the video. Video is captured for a time interval of 10 seconds. And the snapshots are saved into the computer as images. After 10 sec it fires the Blue tooth server.

4) Server

The server keeps waiting untill it receives a connection request from the client. Once the request is received the connection is established.The images stored in the computer by the videocapturing module are copied to the output stream.

5) Mobile client

Client runs in the user's mobile. So when he requests the connection to the server the request is accepted and the images are streamed to the client's mobile. The images are shown such that continuity is maintained.



SOFTWARE SPECIFICATION

- ◆ Front end : Java / J2ME
- ◆ Back end : My SQL

- ◆ Operating system : LINUX
- ◆ IDE : Net beans

HARDWARE SPECIFICATION

- ◆ Processor : Pentium IV OR Above
- ◆ Primary Memory : 256 MB RAM
- ◆ Storage : 40 GB Hard Disk
- ◆ Display : VGA Color Monitor
- ◆ Key Board : Windows compatible
- ◆ Mouse : Windows compatible
- ◆ Phone : Bluetooth Enabled
- ◆ GSM Modem