

Security Camera System can be access into mobile with internet from remote place

Dr. Khanna SamratVivekanand Omprakash

Address for Correspondence
Information Technology Dept, ISTAR, Sardar Patel University, VVNagar, India

Abstract:→This paper represents how camera can captured the images and video into the database and then it may transformed to the mobile with help of Internet. Developing mobile applications how the data can be viewed on the mobile from the remote place. By assigning real IP to the storage device from ISP and connected to the internet . Developing mobile applications on windows mobile which runs only on the windows mobile . Wireless camera in terms of 4 , 8, 12, 16 are connected with the system. Windows based application develop for 4 , 8 , 12,16 channels to see at a time on desktop computer . The PC is connected with internet and having Client server application which is connected to the Windows Web hosting Server through the internet. With the help of ISP server we can assign IP to the Window Web Server with domain name . Domain name will be access from the world. By developing mobile applications on web we can access it on mobile . Separate setup of windows .exe develop for the Windows Mobile phone to access the information from the server. Client setup can be installed on the mobile and it fetches the data from server and server is based on real IP with domain name and connected with Internet . Digital Wireless cameras are connected & data is stored in Digital Video Recorder having 1 Terabyte of hard disk with different channel like 4, 8, 12,16. We can see Video output in mobile by installing the client setup or by accessing directly from web browser which supports the application for mobile. The beauty of this software is that we can access security camera system into the mobile with internet from remote place.

Index term → Digital Video Recording, Wireless Camera, Web Server, Mobile Application and Camera

I Introduction : Wireless systems are necessary for many people nowadays. Robbery and murder are becoming a daily story in news reports during recent years. This, understandably, worries most citizens and acts as a trigger to motivate them into purchasing security systems. A security system can offer protection for the entire family and property of a home. It also acts as a great deterrent for criminals and lowers your home insurance rates. A wide range of complete, turn-key 4,8,12,16 camera video surveillance systems that include everything needed for total video surveillance system operation. Video security systems come pre-packaged in 4,8,12,16 camera security camera systems, and can be configured to meet your exact security needs - designed to protect your home or business. Video security systems are networkable, allowing you to easily monitor home or business remotely via the internet. Wireless security cameras that will allow you to watch your home or office without the need to run cable. These wireless security camera systems are

designed to protect your property and belongings, and these security cameras allow you to remotely watch them from wherever you are. The right wireless antenna makes a big difference in the performance of your wireless surveillance application. It offers antennas for every covert and long range need. Wireless video receivers make wireless video easy and inexpensive. Form the highly reliable FM wireless video connection to WiFi connections, wireless video receivers are the perfect solution when it is difficult or impossible to run cables. A wireless receiver can easily be used in conjunction with hidden video cameras. Wireless video surveillance receivers are ideal for receiving video over long distances and save our time and frustration. Video surveillance systems are networkable, allowing you to easily monitor your home or business remotely via the internet or smart phone. The benefit of Wireless will be the lack of annoying wires and cords all around us. Cables often are a hassle and a good way to mess up the

infrastructure of your property. They are not pleasant to look and often require extra holes within your walls in order to hide their unsightly coils. The installation of a wired security system and cameras will need a lot of patience and time because you are dealing with so many cables. It would be easy to get your wires crossed, pun intended. Selection of Security DVRs, DVR Cards, featuring the latest DVR Software technologies for high quality video encoding including h264 DVR video compression to conserve disk space while maximizing video quality.

II Objective

By the strategic placement of security cameras in certain corners of the house to deter thieves and criminal behavior and, in certain circumstances, to use recorded footage in the investigation of and prosecution for criminal activity. To develop web based applications for capturing the video and images for recording and storing into database. Person can access the video images from the remote place from internet access . From the remote place user can access the camera security system with the smartphone having internet . Developing mobile application to install on Windows mobile phone for client purpose. Employ an close and private accountable process to access the data. To provide authentication and authorization on web based system. To restrict misuse or abuse of the system or of the footage. It provides safety and prevents any untoward incidents from happening such as potential home invasions or robberies. Fire is one of the leading causes of home destruction. Since fires are dangerous, you can increase home security by learning how fires are started and what you can do to prevent fires from occurring. To control Crime types which include murder, violent crimes, rapes, robberies, aggravated assault, property crimes, grand auto theft, larceny, theft, etc



Fig[1] Security System without Mobile



Fig[2] Mobile user can access information from remote place



Fig[3] Security System with mobile

III Design & Explanation

Online Dynamic web application developed for accessing the Camera System with the user and password. Setting of channels and Dynamic IP address is installed into the DVR to access it from remote place with the internet. System is connected with the wireless camera and can be access its features by the PC. Using Windows Server 2003 for the Domain Name & hosting of Web Server. By getting real IP from the ISP and getting entry into DNS of it , we have assign real IP to the system and its gateway. Purchasing domain name for the client , so application can be accessible from the world. Giving authentication and authorization he can access the web application from remote place with the internet. Develop client side windows mobile application to access the database from the server . On installing the setup on smartphone of windows

user can access the system from remote place with the help of mobile.

User can access this system system on two ways. 1. By accessing the online dynamic web application which is stored into the Web Server which hosts on real IP and domain name. 2. By using Windev Mobile Application version 15 software , we can make the client server application on windows platform mobile with windows version 6.0. Setup can be installed on the mobile and same database of Windows server can be accessed into mobile application. With the help of internet it connects the server and can access the images and video in terms of data from database. Client application can be run on different mobiles so any member of family can access it with valid user and password

Solution :

Developing entire Web Application on ASP.NET with authentication and authorization . Using concept of client / Server technology . Concept of Client-Server 3 Tier is used for accessing the information from the central database on desktop application & web application. Mobile application for smart phone developed using Windev Software 15. Clubbing of Wireless Camera with DVR and System PC with real IP from the ISP and accessible application to any corner of room on laptop with the help of Wireless Router having attached USB Dongle with it. Digital wireless is far superior to analog wireless for many reasons. With analog wireless cameras, line of sight between the receiver and camera is needed meaning there can be no obstructions.

Conclusion:

Security System will put you in front of crimes, accidents, and incidents. Once you have secured your home you want to secure your computer, especially if you have Internet access. Securing your computer will help you escape Identity theft, as well as other crimes. Predators swarm the Internet, searching for prey all the time. Since the statistics are increasing technology, designers are working hard each day to help us find the level of security we need. For this reason technology designers has invented home security systems, deadbolts, fire alarms, CO alarms

(Carbon Monoxide Alarms), etc. Home security systems are easy to install nowadays. The basic home security systems include motion sensors, photocells, sound detectors, window and door alarms, wireless systems, etc. The lights are great, since motion lights will typically scare away the average criminal. According to statistics, homes are broken into each day, and most homes are violated while the family is on vacation, or away from their home. Most criminals rather get in and get out, rather than face potential risks, such as human encounters.

Acknowledgement

Authors acknowledge the financial support by Institute of Science & Technology for Advanced Studies & Research (ISTAR) V. V. Nagar for this work. I would like to thanks Dr Vipul desai for his support and guidance.

References:

- Gerry O'Briena. "Microsoft IIS 5 Administration". PUBLISHED By C.G.JAIN For TECHMEDIA, ISBN NO 81-7635-480-5, January 2000.
- Jeff Frentzen and Henry Sobotka. "Javascript Annotated Archives". PUBLISHED BY TATA MC GRAWHILL TEC, ISBN NO 0-07-463612-x, January 1999.
- Noel Jerke And Michael Hatmaker. "Vbscript Interactive Course". Published by Techmedia, ISBN NO 81-87105-55, January 1997.
- Scott Hawkins. "Apache Web Server Administration & E-commerce Handbook". Published Edition Wesley Longman (Singapore) Pte Ltd, ISBN NO 81-7808-278-0, January 2001.
- Khanna SamratVivekanand Omprakash "Email Scripting Language ". The 2008 International Conference on Internet Computing, PUBLISHED BY 2008 CSREA PRESS. ISBN No 1-60132-073 6th, July 2008.
- Ben Forta,Dyan Bromby, Rohan Mandel, Paul Fonte, Keith Lauver &Robert Juncker., "Wap Development with WML and

WMLScript,” PUBLISHED BY SAMS; BK&CD-ROM EDITION., ISBN NO 81-7635-480, 0-5,SEPTEMBER 2000

Gerry O’Briena , “Microsoft IIS 5 Administration,” PUBLISHED BY C.G.JAIN FOR TECHMEDIA., ISBN NO 81-7635-480-5,January 2000

Jeff Frentzen and Henry Sobotka, “Javascript Annotated Archieves,” PUBLISHED BY TATA MC GRAW HILL TEC, ISBN NO 0-07-463612-x, January 1999

Noel Jerke And Michael Hatmaker, “Vbscript Interactive Course,” PUBLISHED

BY TECHMEDIA, ISBN NO 81-87105-55, January 1997

Scott Hawkins, “Apache Web Server Administration & E-commerece Handbook,” PUBLISHED EDITION WESLEY LONGMAN (SINGAPORE) PTE LTD., ISBN NO 81-7808-278-0, January 2001

