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Concept of Web based SMS messaging server with mobile

Dr. Khanna SamratVivekanand Omprakash

Address for Correspondence

Information Technology Dept, ISTAR, Sardar Patel University, VVNagar, India

ABSTRACT

This paper represents how information can be send to web server and to the different clients using web server in terms of SMS. Web server will take care of authentication and authorization of the account. The information will be store into central database in the web server and then it sends to mobile, by connecting mobile with USB dongle or wireless technology like Bluetooth/Wifi to send information to the user. Tracking of sending information to different users with different accounts to be maintained. We can send the information with different mobile numbers by setting with this web server. SMS messaging web server can be hosted on the real IP and be connected to mobile device with different settings. User can send dynamic database to the clients, from the different database. Messages can be sent by retrieving the information from the user. User can develop its own script for developing web applications and can send data to the web server. Message web server will handle the data and send to the different clients from accounts and update the data and take care of SMS successfully send or not. Different channels will be sent for different mobile numbers on the same web server. Efficient and accurate connection with the different account using mobile connection can be generated and GUI for the user. Completes maintenance in terms of sending information to the mobile can be maintained. E.g . Message from receiving and sending mobile number, date and time. Confirmation of receiving & sending, successfully sms sent or not by using mobile GSM modem with sim card. Using the centralized database on the web on real IP for a particular domain name, message can be send to any part of the world in terms of SMS to the client by connecting mobile with the bluetooth, wifi or data cable to the Web Server

Keywords: - Web server, SMS messaging server, GSM, HTTP, SMTP, TAIL and IMAP

I. Introduction

Web Server is computer that deliver and process web pages to the client. Many web server uses an IP address with domain name. Any computers can be turned into web server by installing server software and connecting machine to the internet.

A messaging server is middleware program that handles messages that are sent for use by other program using a message application (API). A managing server can usually queue and priority messages as needed and saves each of the client programs from having to perform there services. A web based client/server network is computer communication system in which client computer send

request to the server computer for data from its database, and server will return result to client via internet/WWW.

Dedicated Server hosting is also well known as managed dedicated server hosting or simply as dedicated hosting service. The dedicated server can be further divided into three major types: the managed dedicated server, unmanaged dedicated server and the third type is the semi-dedicated server.

Advantages of using the dedicated server hosting are:-

The dedicated server is rented by single client or company. This gives the company the complete control of the dedicated server and also makes the server very secure, stable, powerful, extremely reliable web hosting server.

Disadvantages of using the dedicated server hosting are:-

The main issue with using dedicated server hosting is the very high cost and needed knowledge of using it.

Managed Dedicated server:

If you opt for managed dedicated server hosting package then the web host will either help you maintain the server fully or partially and at various levels as per the hosting company's terms and conditions.

Advantages Managed Dedicated server:

All the critical software updates, for example, security related, the control panel related and the OS related issues are resolved by dedicated server hosting server provider.

Disadvantages Managed Dedicated server:

The Managed Dedicated server cost more than the unmanaged dedicated server. Also there can be some limitations imposed on you.

Unmanaged Dedicated Server:-

Client is responsible for all the dedicated server's maintenance and operational issues. The web host may help you but he would charge additional fees for do so.

Advantages of Unmanaged Dedicated Server:-

The client is in the total control of the dedicated server under this plan

Disadvantages of Unmanaged Dedicated Server:-

The web host's help is extremely limited and he may impose additional fees if any tasks require his or his support team. This fee can be very high if there is extensive support to be given by him.

II Objective:-

Web based server is to provide messaging framework to send, receive and process SMS by developing dynamic online application using latest web technology. SMS communication through GSM, HTTP, SMTP using favorite programming tool, e.g. VBScript and ASP. Message database can be MS SQL, My SQL or Access. The message database plays central role in the SMS Messaging. It contains incoming and outgoing messages. The service running in the background, reads the record from the database and sends out the message to the recipient. Authentication and authorization provided in terms of security. Message can be sent to any part of the world by just sending data to the web server. User can

access the web site by using internet from any part of the world to provide information to the user.

Develop web based SMS messaging software to monitor and control activities occur on the server, in terms of database for sending and retrieving information from the web server. The user enters data into web server for sending to mobile numbers in terms of query and system generated result. Bulk dynamic SMS as well can be sent to different mobile user from database it generates bulk SMS. The server will take care of logging and tracing activity. Multiple channels can be used with different mobile numbers to send the information

II. Design and Explanation:-

Windows 2003 web server is used. Fig. 1 represents the online web server which is windows 2003 server to develop web application. Domains on real IP hosted on webserver for web space. Dynamic online web application used to provide user authentication and authorization of the control panel. Accounts create for sending SMS to different mobile numbers with different email address. Providing facility for group with different messages to different mobile numbers. Message tracing allows you to see exactly what happened with message whether it is sent/received successfully, at what time it was processed by system. Online dynamic website available for the entire system with database. Complete information stored into centralized database. MSAccess and MSSQL database used to store the database. User can use the Excel and .txt files to store the database and can be used to send the messages in terms of information to the user. Web server is connected to 24hrs per day with internet broadband with any ISP provider like BSNL or any private ISP. It is connected with mobile having sim card or wifi with GSM modem. Whenever user will send information to web server, it will send information in terms of SMS to specific mobile number for that we need SIM card with GSM modem and mobile having with simcard. Whenever a system receives a message into mobile a trigger will be fired to give it answer with specific output from database for receiving and sending information we need SIM card with GSM modem for different operation to be performed on the database.

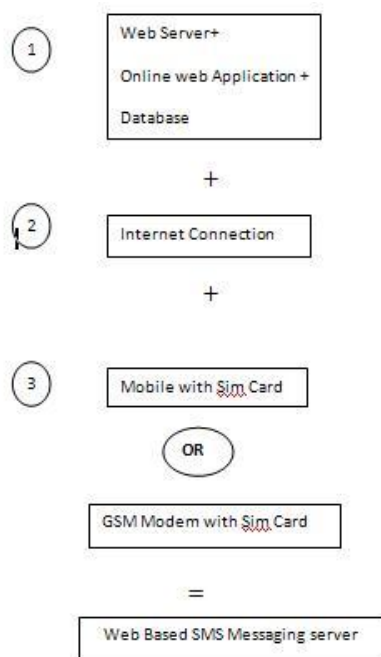


Fig. 1

Result:-

By using the SMS messaging and Web server which is hosted on a remote place and is connected with internet and mobile . The user can send information to any part of the world. Security of the system can be controlled by its computer with providing SMS messages to it. Remote messages can be received with help of internet. User can send/receive the messages with the help of this service. Central database can be control with different operation. Accuracy and Efficiency can be detected in terms of messages received or sent. Developed online web application for the user to send the information on the database and application to send the messages to mobile with specific mobile numbers.

Solution: Complete integrated solution developed for the user for sending information from web to mobile number and reverse from mobile to web. Not only this it gives the information from the specific SMS code from the central database to the user. Trigger fire for the receiving SMS code and generated answer for it. Send and receive SMS messages on single as well as multiple communication line simultaneously possible. It works with the different features like SMS, database, scripting, and monitoring applications for solving the problem. Accuracy and efficiency in terms of message can be planned.

Conclusion:-

By developing this web based SMS server with mobile commercial and non commercial application can be

developed. In terms of security and defence by sending confidential code for activating and controlling weapons with quick decision. It helps for controlling electronic devices for specific purpose, like temperature control. All the information can be send via web to mobile. User immediately take decision from remote place with the help of internet and mobiles. Tracing of vehicles can be made with help of Google map by providing information in terms of longitude and latitude by SMS. It integrates Web Server with internet and mobile to send information via web to mobile in terms of SMS so that user can get accurate and quick information for taking a decision. It helps to communicate messages via web to mobiles for rapid responses. It will create a new hope for mobile user to communicate with world and retrieve information of specific SMS code which provided by the application developer for specific application of the desired project.

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