

OFFLINE SMS INTERNET

V.Baarathi¹, T.Balaji², A.T.Navin Prasad³, M.Jansirani⁴

¹Student, Dept. of Electronics and Communication Engineering, Panimalar Institute of Technology, Tamil Nadu, India

²Student, Dept. of Electronics and Communication Engineering, Panimalar Institute of Technology, Tamil Nadu, India

³Student, Dept. of Electronics and Communication Engineering, Panimalar Institute of Technology, Tamil Nadu, India

⁴ Assistant Professor Dept. of Electronics and Communication Engineering, Panimalar Institute of Technology, Tamil Nadu, India

Abstract - In Remote areas, Situation might arise there is no internet connectivity but an availability of a telecom signal. In these scenario emergency updates and internet search function will not be utilized, which may create an inconvenience in this digital era. In that case the proposal of internet access through telecom SMS will be very much effective. The USB Modem will be acting as a server. The mobile handset will be acting as client, through which we can make internet queries through SMS text format using Python and Android Application.

Key Words: Internet access through telecom SMS, USB Modem, Internet Query, Python, Android.

1. INTRODUCTION:

In Remote areas, Situation might arise that there is no internet connectivity but an availability of telecom signal, this situation will create an inconvenience in this digital era. To solve this inconvenience we proposed a project that Internet can be accessed through telecom SMS.

This can be done by using USB Modem which acts as a SMS server, PC connected to Internet will act as a Web server and Python is used to interface SMS Server and Web server and for HTML parsing and Android application in the mobile handset will act as a client through which we can make internet queries through SMS text format.

In this the URL sent by the android application in the SMS format to the Server is recognized by python and it collects the information from the web server and performs HTML parsing and sends messages to the Mobile handset and the Android application in the handset will receive the SMS and converts the SMS to the HTML and open the web page in a web browser.

2. BLOCK DIAGRAM:

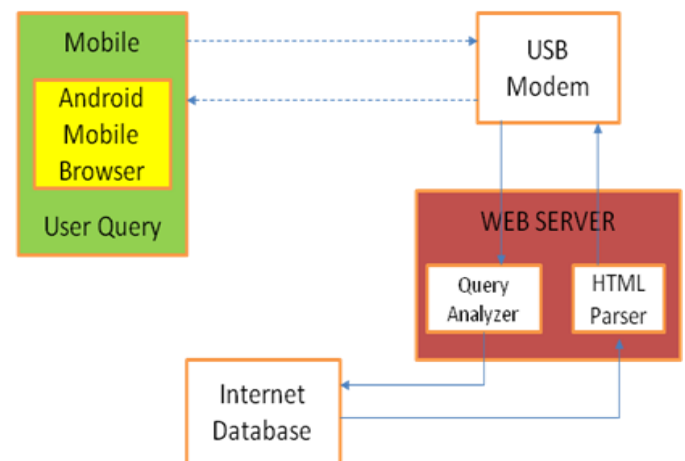


Fig. 1. Block Diagram

3. MODULE DESCRIPTION:

3.1. USB MODEM:

USB Modem acts a Server / Service provider / GSM Modem. It is a modem which can be connected to a PC or laptop as a service provider and a Modem for Internet Access. Modem is controlled by AT commands.

Some of the AT commands are,

1. AT+CPAS
2. AT+CREG
3. AT+CSQ



Fig. 2.1. USB Modem

Then the HTML parsing is performed and the messages are divided and it is sent to the client (Mobile Handset) from the Server.

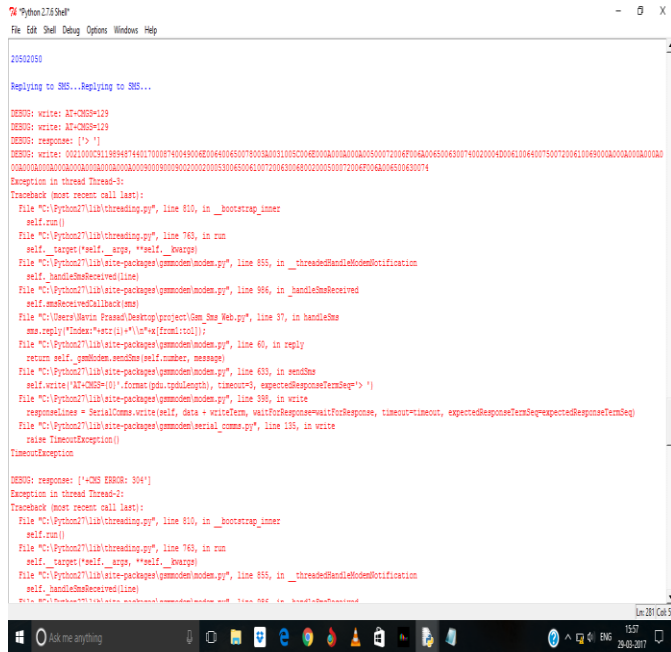


Fig.4.3. Replying to the messages

Therefore the Android Application collects all the messages and merges and it converts it to HTML and open it in a web browser in the Mobile.

REFERENCES:

- (1) Fang Yuan, Guang-Yi and Bo-zhen Cai “Android SMS encryption system based on chaos”, 2015 IEEE 16TH International conference on Communication Technology.
- (2) Yoppy Sazaki, Megah Mulya; Mely Arisandi “The development android-based SMS security software using ECDSA with Boolean permutation”, 2016 2nd International Conference on Wireless and Telematics (ICWT)
- (3) D.Skvorc, M.Orsic, S. Gros “Android-powered web server for volunteer-based environment sensing”, 2015 38th International Convention on Information and Communication Technology, Electronics and Microelectronics(MIPRO)
- (4) Kevin Paul, Sheri Mickelson, John M.Dennis “A new parallel python tool for the standardization of earth system model data”, 2016 IEEE International Conference on Big Data.
- (5) Suraj B. Karale, G.A. Patil “Extracting brief note from Internet newspaper”, 2016 3rd International Conference on Computing for Sustainable Global Development.

(6) Md.Shams Arman Rupok, Maruf Ahmed, A.R.N.M Reaz UI Haque, “Design and Implementation of a novel remote metering system using USB Modem”, 2011 3rd International Conference on Electronics Computer Technology.

BIOGRAPHIES:



V. Baarathi is currently studying Electronics and Communication Engineering at Panimalar Institute of Technology in Chennai (2013-2017).



T. Balaji is currently studying Electronics and Communication Engineering at Panimalar Institute of Technology in Chennai (2013-2017).



A.T. Navin Prasad is currently studying Electronics and Communication Engineering at Panimalar Institute of Technology in Chennai (2013-2017).



M. Jansirani is currently working as assistant professor (Electronics and Communication Engineering) at Panimalar Institute of Technology in Chennai (2013-2017).