
Web Application of Bulk SMS Sending System

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Abstract

SMS messaging services have evolved to include bulk SMS messaging alongside the sending of single messages (such as one-time passwords and delivery notifications), interactive messaging (such as group messaging services). Bulk SMS messaging is that businesses and organizations can make use of one or more solutions to send SMS messages. These bulk SMS messaging solutions interface with a service providers' SMS gateway to ensure the delivery of messages to mobile phone numbers anywhere in the world.

Keywords: - Bulk SMS, Short Message Service, SMS Provider.

INTRODUCTION

Short Messages have become a part of our daily life for online communication. Now most users send text messages via internet using bulk SMS API. Even the service providers have reduced their work with automated reply to user with predefined text in the message. Also, we have witnessed many devices sends SMS. In which a device reacts upon receiving SMS and follow the programmed commands.

This time, instead of device, I simulated to control bulk SMS through a website. In this section, I briefly describe related work. In the system control sending of bulk SMS through website. Bulk SMS messaging services have evolved to include bulk SMS messaging alongside the sending of single messages (such as one-time passwords and delivery notifications), interactive messaging (such as group messaging services). Bulk SMS is the

process of sending large number of SMS to different groups of people at different locations. They can be used to convey important information or used for promotional and transactional purposes. Short message sent from a website to the mobile device through the API, will contain a predefined command structure, which initiates the process of sending messages through the web. Through commands web page recognizes the keywords and parameters. A data dictionary containing the command structures is matched with the control message and if satisfied, the program code written in server-side programming language will react accordingly and send messages to the defined destination(s).

METHODOLOGY

BulkSMS is the process of sending large number of SMS to different groups of people at different locations. The user can register with mobilenumbers in the website.

After register in website the user Login in the website. The authorized user adds the contact list and SMS templates in users account. The authorized user sends control message to the phone numbers. The user sends promotional and transactional SMS.

Block Diagram:

A registered mobile number user (registered with datadictionary of the website) sends a control message to phone number by six-digit code. The message reaches the web server through sender's SMS gateway and bulk SMS service provider's gateway, which considers the control message as normal text message. Web server contains the web portal that recognizes the keywords and parameters in the text and transmits a text message for a particular group of users (those having contacts in SMS list) through bulk SMS API. The text message is transmitted via SMS gateways of both bulk SMS service provider and receiver's SMS gateway. The SMS is sent to the receiver's phone number.

Send two types of SMS

(a) Promotional SMS

Configured by default for all new accounts, promotional SMS is generally used for sending any offers or promotions to new and existing customers. Messages are sent to non-DND numbers and opt-in numbers (via my DND Manager) between 9am and 9pm only.

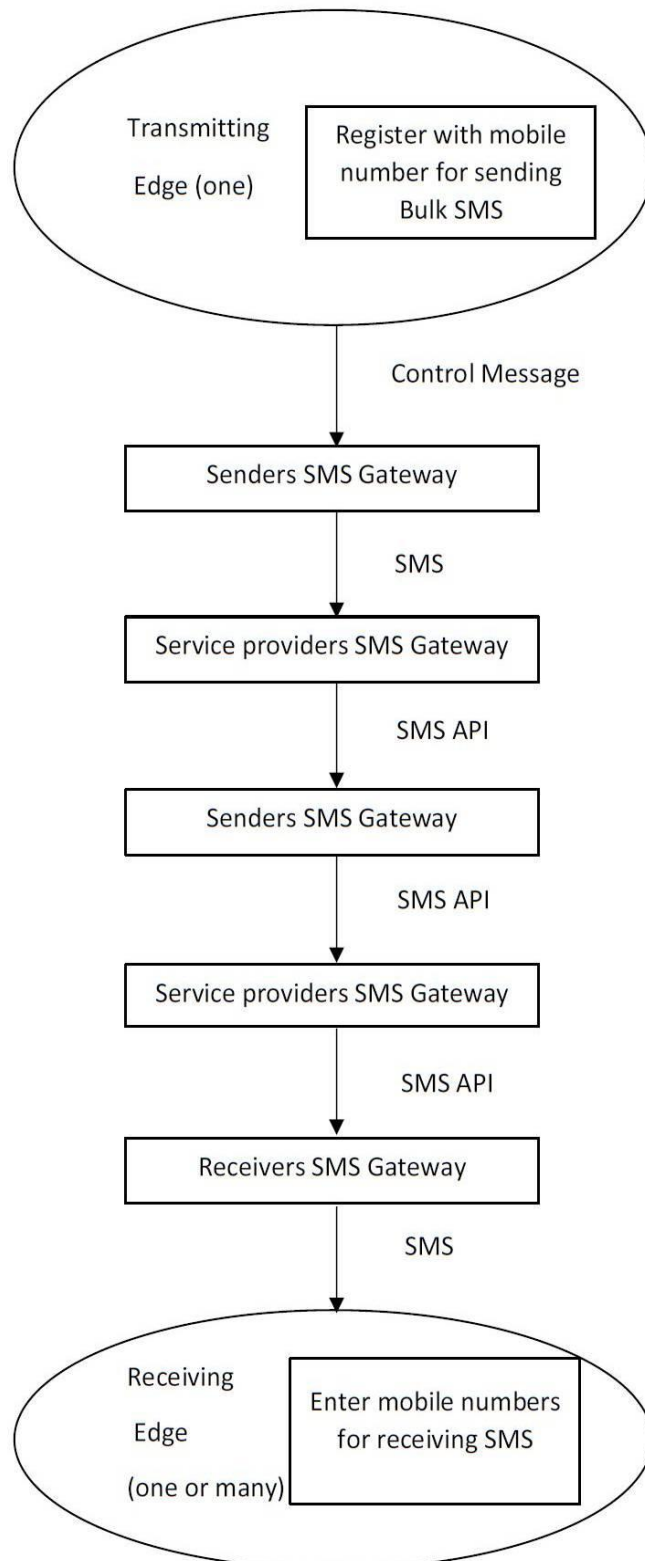


Fig. Block Diagram of the system

(b) Transactional SMS

Transactional route can only be used for sending transactional SMS such as OTPs and alerts to your registered users. Messages can be sent 24x7 from your own 6-character Sender ID(s). To configure a transactional route, create your account today and contact sales@textlocal.in. No setup costs involved!

Send SMS Messages Online

Whether you are a garage sending 20 personalized car service reminders or a global brand scheduling 10, 00,000 bulk SMS, Text local is perfect. Packed with cutting-edge tools & backed by fanatical support.

SMS Gateway

Send SMS texts from any email gateway/application. Simply send an email to any MobileNumber@sms.textlocal.in and it will be converted to an SMS and delivered in seconds.

Simple SMS API Code for Developers

5 lines of code to connect your software to every mobile phone on the planet. Works with every programming language (PHP, .NET, Java etc.). Simply fetch the mobile number(s) from your database or HTML

form & build the SMS content (merging data as required).

Custom Sender IDs

Send SMS from your own 6-alphabet sender IDs or sender names and enhance brand identity. Note: Only Transactional SMS can be sent with a Sender ID.

SMS Templates and History

Save time by creating SMS templates and using them for frequently sent messages. Also access previously sent SMS for easy reference and re-use.

RESULT

The developed solution accomplishes the objective of controlling a website to send SMS through a control SMS sent from website to the phone number. As the third-party SMS gateway is required for this application so the efficiency not only depends upon how fast web application processes the command sent through mobile phone or cell phone but also depends upon the services provided by gateway. Bulk SMS enables its users to send mass text messages nationally and internationally. This is the reason why this type of SMS delivery is one of the best solutions for businesses aiming to reach a specific audience, locally or globally.

CONCLUSION

The short message service unifies Internet and mobile network is on a rapid development stage, and every short message business emerged one after another. This software development that is based on short messaging service (SMS) system for delivering messages through SMS gateway. This system is most useful and uses SMS gateway which is emerging technology used by different marketing and notification provider organization like super market, colleges, weather forecasting centers.

This software was designed based on typical practical applications. From the various tests carried out, the designed software was found to be reliable and practical. More functions can be added from the prototype design. Specifically, the database had also been tested using some sets of data and it had been found to be successful. However, it has been tested using a real phone.

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