Sending Group sms using AJAX

send bulk or group sms using asp.net web application in ajax.
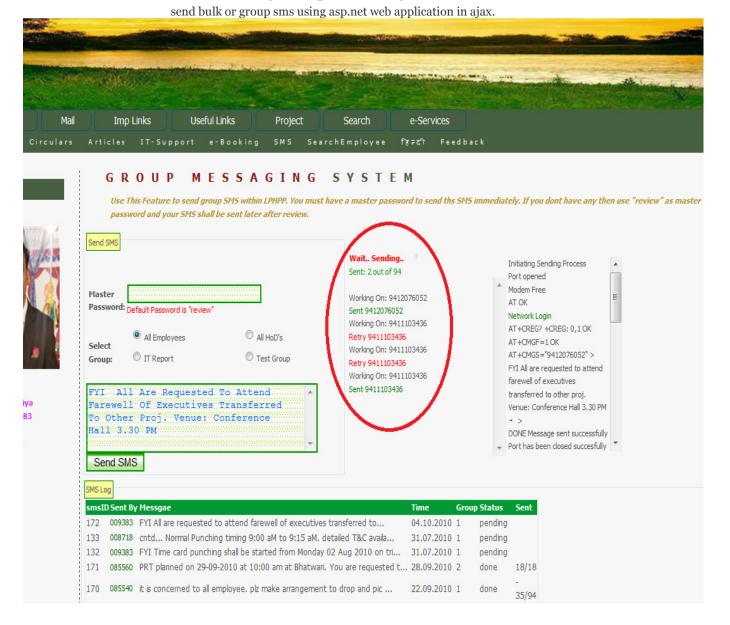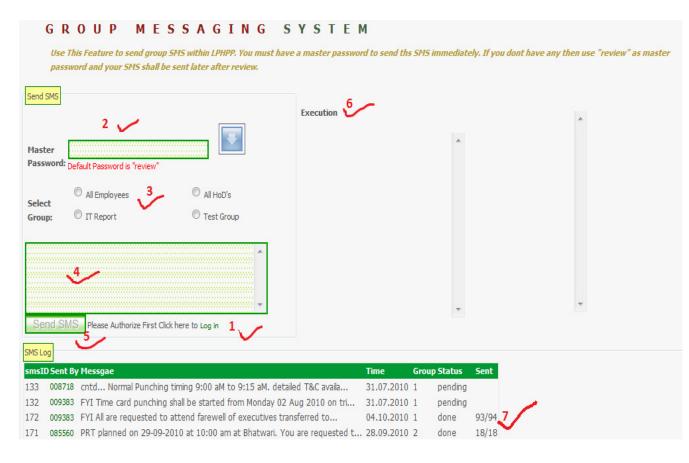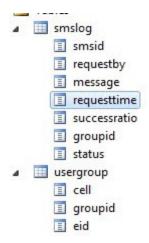

Concept is

1. we have a database having mobile no with their group id. Also we have another database which contain log of sent sms.

2. Our web app will first retrieve the array of cellnos according to a group id and then send sms one by one using ajax. A web service is created named **vinsmsservice.asmx** using vinsmsservice.vb

3. Use appropriate code in your aspx page to call the said service using timer control. The cell nos are sent one by one to the web service until they are sent.

4. Status of SMS shall be shown in a table. Eg. Sender eid, content , time , group no and status.

5. Authenticate user with a login wizard then sms shall be directly sent or sent to pending queue based on master password provided.

GROUP MESSAGING SYSTEM

Use This Feature to send group SMS within LPHPP. You must have a master password to send ths SMS immediately. If you dont have any then use "review" as master password and your SMS shall be sent later after review.

Send SMS

2 ✓

Master
Password: Default Password is "review"

6
Execution

Select
Group:
○ All Employees   **3** ✓   ○ All HoD's
○ IT Report   ○ Test Group

4

Send SMS Please Authorize First Click here to Log in **1** ✓

5 ✓

SMS Log

smsID	Sent By	Messgae	Time	Group	Status	Sent
133	008718	cntd... Normal Punching timing 9:00 aM to 9:15 aM. detailed T&C availa...	31.07.2010	1	pending	
132	009383	FYI Time card punching shall be started from Monday 02 Aug 2010 on tri...	31.07.2010	1	pending	
172	009383	FYI All are requested to attend farewell of executives transferred to...	04.10.2010	1	done	93/94 **7**
171	085560	PRT planned on 29-09-2010 at 10:00 am at Bhatwari. You are requested t...	28.09.2010	2	done	18/18

1.   start with the database sms.mdf in app_data folder

for database connection add an entry in web.config file like this

<connectionStrings>

* <add name="vinConn3" connectionString="Data Source=.\SQLEXPRESS;AttachDbFilename=|DataDirectory|\sms.mdf;Integrated Security=True;User*

Instance=True" providerName="System.Data.SqlClient"/>

</connectionStrings>

2. Function to send group sms

```vb
Private Function sendGroupSMS(ByVal groupid As String, ByVal message As String, ByVal portname As String) As String
        Dim vinservice As New vinsmsservice
        Session("message") = message
        ''### Now get the phone no list from groupid
        Session("cellnos") = vinservice.getGroupCellNos(groupid)
        ''## check that got all the nos. from database of group
        If Session("cellnos").ToString.Contains("ERROR") Then
            Return Session("cellnos").ToString + " <br/> Unable to retrive cell list from database. Quit"

        End If
        '##### first log the sms
        Dim logtime As DateTime = Now
        Session("logtime") = logtime

        lblStatus.Text = vinservice.logSMS(Session("eid"), message, groupid, Session("logtime").ToString)

        Session("cellnoindex") = 0
        Session("Call_Once") = True   'if true u can call for sending sms
        Session("status") = "done" ' done or pending
        Timer1.Enabled = True
        Timer1.Interval = 1000
        lblStatus.Text = ""
        lblCellno.Text = ""

        Return "Initiating Sending Process <br/>"
    End Function
```

3. Lets start coding In app_code folder create a file named vinsmsservice.vb and use this code

```vb
' ASPDOTNETAJAXIM - Copyright 2010 Vinod Kotiya

' http://vinodkotiya.com



Imports System.Web

Imports System.Web.Services
```

```vbnet
Imports System.Web.Services.Protocols

Imports System.Data.SqlClient

Imports System.Data

Imports Microsoft.VisualBasic

Imports System.IO.Ports

Imports System.Threading




<WebService(Namespace:="http://www.vinodkotiya.com/")> _

<WebServiceBinding(ConformsTo:=WsiProfiles.BasicProfile1_1)> _

<Global.Microsoft.VisualBasic.CompilerServices.DesignerGenerated()> _

ScriptService()> _

Public Class vinsmsservice

    Inherits System.Web.Services.WebService

    ' vinod kotiya , www.vinodkotiya.com


    Shared readNow As New AutoResetEvent(False)

    Shared port As SerialPort


    <WebMethod()> _

    Public Function sendSMS(ByVal cell As String, ByVal message As String, ByValportname As String) As String

        ' will return something with DONE or ERROR or RETRY or PENDING

        Dim log As String = "Port opened
"

        Try

            '"Enter the port name your phone is connected to


            port = EstablishConnection(portname)

            Dim recievedData As String = ExecuteCommand("AT", 300)


            If recievedData.Contains("+CME") Then

                log = log + "
RETRY Busy sending previous message " + recievedData

                Exit Try    'move to finally

            Else
```

```vbnet
                log = log + " Modem Free
" + recievedData

            End If

            recievedData = ExecuteCommand(" AT+CREG?", 300)


            If recievedData.Contains("0,2") Then

                log = log + "
PENDING No Network " + "
" + recievedData

                Exit Try   'Return log + "
ERROR No Network "

            ElseIf recievedData.Contains("0,1") Then

                log = log + "
Network Login " + "
" + recievedData

            End If


            recievedData = ExecuteCommand("AT+CMGF=1", 300)

            log = log + "
" + recievedData

            '"Enter the phone number you want to send message to:

            Dim phoneNumber As [String] = cell '"+919411103810"

            Dim command As [String] = "AT+CMGS=""" & phoneNumber & """"



            recievedData = ExecuteCommand(command, 300)

            log = log + "
" + recievedData


            '    "Enter the message you want to send

            '     command = message & Char.ConvertFromUtf32(26) & vbCr

            command = message & vbCrLf & Chr(26)

            'command = "AT+CREG?"

            recievedData = ExecuteCommand(command, 300)

            log = log + "
" + recievedData

            If recievedData.Contains(vbLf) Then 'vbCr & vbLf & "OK" & vbCr & vbLf

                ' recievedData = "DONE Message sent successfully"

                log = log + "
DONE Message sent successfully"
```

```vb
            End If

            If recievedData.Contains("ERROR") Then

                Dim recievedError As String = recievedData

                recievedError = recievedError.Trim()

                ' recievedData = "Following ERROR occured while sending the message " & recievedError

                log = log + "
Following ERROR occured while sending the message " & recievedError

            End If



    Catch ex As Exception

            log = log + "
" + "ERROR Message: " & ex.Message.Trim()


    Finally

        If port IsNot Nothing Then

            port.Close()

            RemoveHandler port.DataReceived, New SerialDataReceivedEventHandler(AddressOf DataReceived)

            port = Nothing

            log = log + "
Port has been closed succesfully"


        Else

            log = log + "
ERROR Port has been already open by some application."


        End If


    End Try

    '  Application("modemlock") = 0   'modem can be used now

    Return log

End Function

<WebMethod()> _

Private Function ExecuteCommand(ByVal command As String, ByVal timeout AsInteger) As String

    port.DiscardInBuffer()

    port.DiscardOutBuffer()
```

```vb
            readNow.Reset()

            port.Write(command & vbCr)

            Dim recieved As String = receive(timeout)

            Return recieved

    End Function

    <WebMethod()> _

    Private Function receive(ByVal timeout As Integer) As String

            Dim buffer As String = String.Empty

            Do

                If readNow.WaitOne(timeout, False) Then

                    Dim t As String = port.ReadExisting()

                    buffer += t

                End If

        Loop While Not buffer.EndsWith(vbCr & vbLf & "OK" & vbCr & vbLf) AndAlsoNot buffer.EndsWith(vbCr &
vbLf & "> ") AndAlso Not buffer.Contains("ERROR")

            'Loop While Not buffer.Contains("OK") AndAlso Not buffer.EndsWith(">") AndAlso Not
buffer.Contains("ERROR")

            Return buffer

    End Function

    <WebMethod()> _

    Private Function EstablishConnection(ByVal portName As String) As SerialPort

            Dim port As New SerialPort()

            port.PortName = portName

            port.BaudRate = 115200

            port.DataBits = 8

            port.StopBits = StopBits.One

            port.Parity = Parity.None

            port.ReadTimeout = 300

            port.WriteTimeout = 300

            ' port.Encoding = Encoding.GetEncoding("iso-8859-1")

            AddHandler port.DataReceived, NewSerialDataReceivedEventHandler(AddressOf DataReceived)

            port.Open()

            port.DtrEnable = True

            port.RtsEnable = True

            Return port

    End Function
```

```vb
    <WebMethod()> _

    Private Sub DataReceived(ByVal sender As Object, ByVal e AsSerialDataReceivedEventArgs)

        If e.EventType = SerialData.Chars Then

            readNow.[Set]()

        End If

    End Sub

    <WebMethod()> _

    Public Function logSMS(ByVal eid As String, ByVal message As String, ByValgroupid As String, ByVal requesttime As String) As String

        Dim query As String


        query = " insert into smslog (requestby, message, requesttime, groupid, status) " & _
 " VALUES  (  " & _
  "'" & Replace(eid, "'", "''") & "', " & _
            "'" & Replace(message, "'", "''") & "', " & _
                    "'" & Replace(requesttime, "'", "''") & "', " & _
                     "" & groupid & ", " & _
                    "'" & Replace("pending", "'", "''") & "') "

        If executeQuerydb3(query) Then

            Return " SMS queued
"

        Else

            Return "   Unable to queue SMS
" + query

        End If

    End Function

    <WebMethod()> _

    Public Function updateSMSstatus(ByVal requesttime As String, ByValstatusratio As String, ByVal status As String) As String

        Dim query As String

        query = " update smslog set  successratio = '" & statusratio & "' , status = '" & status & "' where requesttime = '" & requesttime & "' "

If executeQuerydb3(query) Then

            Return " SMS status updated
"

        Else

            Return "   Unable to update SMS status
" + query
```

```vbnet
        End If

    End Function

    <WebMethod()> _

    Public Function getGroupCellNos(ByVal groupid As String) As String()

        Dim cellnos() As String


        Using connection As NewSqlConnection(System.Configuration.ConfigurationManager.ConnectionStrings("
vinConn3").ConnectionString)

            Dim sqlComm As SqlCommand

            Dim sqlReader As SqlDataReader

            Dim dt As New DataTable()

            Dim i As Integer = 0

            Try

                'connection.Close()

                connection.Open()

                sqlComm = New SqlCommand("select cell from usergroup where groupid = " + groupid,
connection)  ' fname + ' ' + lname AS name

                sqlReader = sqlComm.ExecuteReader()

                dt.Load(sqlReader)

                ReDim cellnos(dt.Rows.Count)

                While i < dt.Rows.Count

                    cellnos(i) = dt.Rows(i).Item("cell").ToString

                    'temp = temp + dt.Rows(i).Item("cell").ToString


                    i = i + 1

                End While

                sqlComm.Dispose()

                connection.Close()

                Return cellnos

            Catch e As Exception


                connection.Close()

                ' cellnos(0) = "Databse fail: " + e.Message

                Return {"ERROR Databse fail: " + e.Message} 'cellnos

            End Try
```

```vbnet
        End Using


    End Function

    <WebMethod()> _

    Public Function getGroupIdwithMessage(ByVal smsid As String) As String

        'return groupid logtime and  message seperated by hash#

        Dim temp As String


        Using connection As NewSqlConnection(System.Configuration.ConfigurationManager.ConnectionStrings("vinConn3").ConnectionString)

            Dim sqlComm As SqlCommand

            Dim sqlReader As SqlDataReader

            Dim dt As New DataTable()


            Try

                'connection.Close()

                connection.Open()

                sqlComm = New SqlCommand("select groupid, message, requesttime from smslog where smsid = " + smsid, connection)  ' fname + ' ' + lname AS name

                sqlReader = sqlComm.ExecuteReader()

                dt.Load(sqlReader)


                If dt.Rows.Count = 1 Then

                    temp = dt.Rows(0).Item("groupid").ToString + "#" + dt.Rows(0).Item("requesttime").ToString + "#" + dt.Rows(0).Item("message").ToString

                Else

                    temp = "ERROR: smsid not found"

                End If

                sqlComm.Dispose()

                connection.Close()

                Return temp


            Catch e As Exception


                connection.Close()
```

```vbnet
                    ' cellnos(0) = "Databse fail: " + e.Message

                    Return "ERROR Databse fail: " + e.Message

            End Try


        End Using


    End Function

    <WebMethod()> _

    Private Function executeQuerydb3(ByVal mysql As String) As Boolean


        'Create Connection String

        'Dim DBConn As New SqlConnection("Data
Source=.\SQLEXPRESS;AttachDbFilename=|DataDirectory|\intradb.mdf;Integrated Security=True;User
Instance=True")

        Using connection As New SqlConnection(System.Configuration.ConfigurationManager.ConnectionStrings("
vinConn3").ConnectionString)

            Dim sqlComm As SqlCommand

            Dim sqlReader As SqlDataReader

            Try

                'connection.Close()

                connection.Open()

                sqlComm = New SqlCommand(mysql, connection)

                sqlReader = sqlComm.ExecuteReader()

                'Add Insert Statement

                sqlComm.Dispose()


                connection.Close()

                executeQuerydb3 = True
        Catch exp As Exception

                'lbldebug.Text = exp.Message

                connection.Close()

                executeQuerydb3 = False
            End Try


        End Using


    End Function
```

```vbnet
<WebMethod()> _

Public Sub rebindGridView3(ByVal query As String, ByVal gridViewControl As GridView)

    'Binds Paging/Sorting GridView with data from the specified query

    ' Bind GridView to current query & always store ur query into session("currentquery") before
calling

    ' reason is whenever page indexed changed or sort.. then it will show data from currentquery


    Using connection As SqlConnection = New SqlConnection(ConfigurationManager.ConnectionStrings("vinCo
nn3").ConnectionString)
        Dim sqlComm As SqlCommand

        Dim sqlReader As SqlDataReader

        Dim dt As New DataTable()

        Dim dataTableRowCount As Integer

        Try

            connection.Open()

            sqlComm = New SqlCommand(query, connection)

            sqlReader = sqlComm.ExecuteReader()

            dt.Load(sqlReader)

            dataTableRowCount = dt.Rows.Count


            If dataTableRowCount > 0 Then

                gridViewControl.DataSource = dt

                gridViewControl.DataBind()

            End If

            sqlComm.Dispose()

            connection.Close()

            sqlReader.Close()

        Catch e As Exception

            'lblDebug.text = e.Message


            connection.Close()

        End Try


        connection.Close()

    End Using

End Sub
```

```vb
End Class
```

4. Now create another file vinsmsservice.asmx in root of your site to use the earlier created web service

```
<%@ WebService Language="VB" CodeBehind="~/App_Code/vinsmsservice.vb" Class="vinsmsservice" %>
```

Lets start designing sms.aspx page. first we will write vb.net code behind. Here my code uses user login authentication so you have to work it out for yourself or if you directly want to run it then uncomment following lines in page load

```vb
'    Session("eid") = "009383"
          'Session("name") = "Vinod K"
```

5.   also access the sms.aspx page like this with portname and mode parameter.

```
<a href="sms.aspx?mode=group&portname=COM4">Group Messaging System</a>
```

```vb
Imports System.Threading

Partial Class sms
    Inherits System.Web.UI.Page

    ' if error comes then kill the asp.net development server. may be accessing the com port
    Shared vinread As New AutoResetEvent(False)
    Shared failednos As Integer = 0
    Shared totalnos As Integer = 0 'no of cell to send sms
    Shared workingno As String = "" ' currently sending sms on this no
    Shared workingmessage As String = "" ' currently sending this message


    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs)Handles Me.Load
        If Not Page.IsPostBack Then
            'this will be executed only first time any event happen on web page
            ' If IsNothing(Request.Params("mode")) Then
            lblCell.Visible = False
            txtCell.Visible = False
            Timer1.Enabled = False

            If Not IsNothing(Request.Params("mode")) Then
                Session("mode") = Request.Params("mode") '    'mono or group or smsid
                '    lblCellno.Text = Request.Params("mode")
```

```vbnet
            Else
                Session("mode") = "group"
            End If
            If Not IsNothing(Request.Params("portname")) Then
                Session("portname") = Request.Params("portname")
                ' lblCellno.Text = lblCellno.Text + Request.Params("portname")
            Else
                Session("portname") = "COM3"
            End If

            If Not Session("mode") = "mono" And Not Session("mode") = "group"Then
                ' if pending smsid has been given
                If IsNumeric(Session("mode")) Then
                    '' means smsid has been given
                    lblCellno.Text = sendPendingSMS(Session("mode"))

                End If
            End If

            '
            '   Session("eid") = "009383"
            'Session("name") = "Vinod K"
            'txtSMS.Text = Now.Second.ToString + Rnd(1000).ToString + " Random sms no for
group sms "

        End If

        If Not String.IsNullOrEmpty(Session("eid")) Then
            btnSend.Enabled = True
            If (FileIO.FileSystem.FileExists(Server.MapPath("~/database/pics/") +"p" +
Session("eid") + ".gif")) Then
                imgUser.ImageUrl = "database\pics\p" + Session("eid") + ".gif"
            Else
                lblName.Text = "Guest: " + Request.UserHostAddress
                imgUser.ImageUrl = "database\pics\anonymous.gif"
            End If
            lblName.Text = Session("name")
            lblEid.Text = "Eid : " + Session("eid")
            lblDept.Text = Session("dept") + "
Log Out "

        Else
            btnSend.Enabled = False
            imgUser.ImageUrl = "database\pics\anonymous.gif"
            lblDept.Text = " Log in "
            lblName.Text = "Guest: " + Request.UserHostAddress
            lblLogin.Text = " Please Authorize First Click here to Log in "
        End If

        Session("CurrentQuery") = "SELECT LEFT(message, 70) + '...' AS message,smsid,
convert(varchar, requesttime, 104) as requesttime1, requestby, successratio, groupid,
status from smslog ORDER BY status DESC, requesttime DESC"
        Dim vinservice As vinsmsservice = New vinsmsservice
        vinservice.rebindGridView3(Session("CurrentQuery"), gvSMSlog)
    End Sub
```

```vb
    Protected Sub btnSend_Click(ByVal sender As Object, ByVal e AsSystem.EventArgs) Handl
es btnSend.Click
        'Dim SMSEngine As New vinsms("COM3")
        'SMSEngine.Open()
        'lblStatus.Text = "starting
"
        'lblStatus.Text = SMSEngine.SendSMS(txtSMS.Text, "+919411103810")
        lblExe.Text = "Execution"
        lblSent.Text = ""
        Dim vinservice As New vinsmsservice
        Dim logtime As DateTime = Now
        'SMSEngine.Close()
        If Session("mode") = "mono" Then
            lblCell.Visible = True
            txtCell.Visible = True
            If txtSMS.Text.Length < 160 Then


                If txtMasterPassword.Text = "123456" Or txtMasterPassword.Text
="ntpc123" Then
                    '##### first log the sms
                    lblStatus.Text = vinservice.logSMS(Session("eid"),
txtSMS.Text.Trim, "0", logtime.ToString)

                    '#####now send sms
                    lblCellno.Text = "Working On: " + txtCell.Text
                    Dim temp As String = vinservice.sendSMS(txtCell.Text,
txtSMS.Text.Trim, Session("portname"))
                    lblStatus.Text = lblStatus.Text + temp

                    '#####now update sms status
                    If temp.Contains("ERROR") Then  'to get here always use CAPS ERROR

                        lblStatus.Text = lblStatus.Text + " Unable to send message to " +
txtCell.Text + "
"
                        lblStatus.Text = lblStatus.Text +
vinservice.updateSMSstatus(logtime.ToString, "0/1", "pending")
                        lblCellno.Text = lblCellno.Text + "
UnSent: " + txtCell.Text


                    Else
                        lblStatus.Text = lblStatus.Text + " Message sent succesfully to
" + txtCell.Text + "
"
                        lblStatus.Text = lblStatus.Text +
vinservice.updateSMSstatus(logtime.ToString, "1/1", "done")
                        lblCellno.Text = lblCellno.Text + "
Sent: " + txtCell.Text


                    End If
                ElseIf txtMasterPassword.Text = "review" Then
                    lblStatus.Text = lblStatus.Text + vinservice.logSMS(Session("eid"),
txtSMS.Text.Trim, "0", logtime.ToString)
                    vinservice.rebindGridView3(Session("CurrentQuery"), gvSMSlog)
                    lblCellno.Text = " Thanks, Your SMS has been sent in queue, and will
be delivered later after review. "
```

```vb
                        'queue function
                    Else
                        lblCellno.Text = " You have not provided any Master password If dont
have any. Use ''review'' as master password to send message in queue. "
                        '     Response.Write("")

                    End If

                Else
                    lblCellno.Text = "Your SMS length has " + txtSMS.Text.Length.ToString + "
characters which exceeds limit of 160 Characters.
plz make it short. "
                End If

            ' repeat same for group SMS
        ElseIf Session("mode") = "group" Then

            If txtSMS.Text.Length < 160 Then  ' check SMS length
                If rblGroup.SelectedIndex >= 0 Then  ' check group is selected or not

                    If txtMasterPassword.Text = "ntpc123" OrtxtMasterPassword.Text
= "789101112" Then
                        Dim temp As String =
sendGroupSMS(rblGroup.SelectedValue.ToString, txtSMS.Text.Trim, Session("portname"))
                        lblStatus.Text = lblStatus.Text + temp

                        lblExe.Text = " Wait.. Sending..       "
                        Session("CurrentQuery") = "SELECT LEFT(message, 35) + '...' AS
message,smsid, convert(varchar, requesttime, 104) as requesttime1, requestby,
successratio, groupid, status from smslog ORDER BY status DESC, requesttime DESC"

                    ElseIf txtMasterPassword.Text = "review" Then

                        '##### first log the sms
                        lblStatus.Text = vinservice.logSMS(Session("eid"),
txtSMS.Text.Trim, rblGroup.SelectedValue.ToString, logtime.ToString)
                        vinservice.rebindGridView3(Session("CurrentQuery"), gvSMSlog)
                        lblCellno.Text = " Thanks, Your SMS has been sent in queue, and
will be delivered later after review. "
                    Else
                        lblCellno.Text = " You have not provided any Master password If
dont have any. Use ''review'' as master password to send message in queue. "
                        ' Response.Write("")

                    End If
                Else
                    lblCellno.Text = "You have not selected any Group. Please select one
from the list. "
                End If    'group check ends

            Else
                lblCellno.Text = "Your SMS length has " + txtSMS.Text.Length.ToString + "
characters which exceeds limit of 160 Characters.
plz make it short. "
            End If    'sms length end
            End If
    End Sub
```

```vb
    Private Function sendGroupSMS(ByVal groupid As String, ByVal message AsString, ByVal
portname As String) As String
        Dim vinservice As New vinsmsservice
        Session("message") = message
        ''### Now get the phone no list from groupid
        Session("cellnos") = vinservice.getGroupCellNos(groupid)
        ''## check that got all the nos. from database of group
        If Session("cellnos").ToString.Contains("ERROR") Then
            Return Session("cellnos").ToString + "
Unable to retrive cell list from database. Quit"

        End If
        '##### first log the sms
        Dim logtime As DateTime = Now
        Session("logtime") = logtime

        lblStatus.Text = vinservice.logSMS(Session("eid"), message, groupid,
Session("logtime").ToString)

        Session("cellnoindex") = 0
        Session("Call_Once") = True  'if true u can call for sending sms
        Session("status") = "done" ' done or pending
        Timer1.Enabled = True
        Timer1.Interval = 1000
        lblStatus.Text = ""
        lblCellno.Text = ""

        Return "Initiating Sending Process
"
    End Function
    Function sendPendingSMS(ByVal smsid As String) As String
        Dim vinservice As New vinsmsservice
        Dim temp As String
        Dim groupid As String
        '### Now get the groupid with message first
        temp = vinservice.getGroupIdwithMessage(smsid)   'return groupid logtime and
message seperated by hash#
        If temp.Contains("ERROR") Then
            Return temp  'unable to get groupid logtime and  message
        Else
            Dim arr As String() = temp.Split("#")
            groupid = arr(0)
            Session("logtime") = arr(1)
            Session("message") = arr(2)
            'Return groupid + Session("logtime") + Session("message")
            ''### Now get the phone no list from groupid
            Session("cellnos") = vinservice.getGroupCellNos(groupid)
            ''## check that got all the nos. from database of group
            If Session("cellnos").ToString.Contains("ERROR") Then
                Return Session("cellnos").ToString + "
Unable to retrive cell list from database. Quit"
            End If

            Session("cellnoindex") = 0
            Session("Call_Once") = True  'if true u can call for sending sms
            Session("status") = "done" ' done or pending
            Timer1.Enabled = True
            Timer1.Interval = 1000
```

```vbnet
            lblStatus.Text = ""
            lblCellno.Text = ""

            lblExe.Text = " Wait.. Sending..        "
            Return "Initiating Sending Process
"

        End If
    End Function

    Protected Sub Timer1_Tick(ByVal sender As Object, ByVal e AsSystem.EventArgs) Handles
 Timer1.Tick
        ' Timer1.Enabled = False
        Dim vinservice As New vinsmsservice
        Dim temp As String = ""

        Dim cellnos() As String = Session("cellnos")



        '#####now send sms
        If Session("Call_Once") And Int(Session("cellnoindex")) < cellnos.Length -
1 Then   'And Application("modemlock") = 0
            ' Application("modemlock") = 1  'modem can't be used now
            Session("Call_Once") = False
            Dim i As Integer = Int(Session("cellnoindex"))
            temp = vinservice.sendSMS(cellnos(i), Session("message"),
Session("portname"))  ' will return something with DONE or ERROR
            lblStatus.Text = lblStatus.Text + temp

            'Session("cellnoindex") =0 has been called so prepare for next one
            Session("cellnoindex") = i + 1
            lblCellno.Text = lblCellno.Text + "
Working On: " + cellnos(i)


            'Check status
            If temp.Contains("RETRY") Then
                Session("cellnoindex") = i
                lblStatus.Text = lblStatus.Text + " Modem Busy. Now Retry For " +
cellnos(i) + "
"
                lblCellno.Text = lblCellno.Text + "
Retry " + cellnos(i) + ""
            ElseIf temp.Contains("PENDING") And Session("cellnoindex") = 0 Then   'when
first no failed by network then quit
                Session("cellnoindex") = cellnos.Length - 1
                lblStatus.Text = lblStatus.Text + " No Network, Message Sent in queue.
Try Later
"
                lblCellno.Text = lblCellno.Text + "
No Network, Message Sent in queue. Try Later "
                failednos = cellnos.Length   ' all sms failed
                Session("status") = "pending" ' done or pending
            ElseIf temp.Contains("PENDING") Then   'when network failed in between lets
try other no
                lblStatus.Text = lblStatus.Text + " No Network, when sending " +
cellnos(i) + "
"
```

```vb
                ' count no of failed cell
                failednos = failednos + 1
                ' store no of failed cell no
                lblCellno.Text = lblCellno.Text + "
Unsent " + cellnos(i) + ""
            ElseIf temp.Contains("ERROR") Then   'to get here always use CAPS ERROR

                lblStatus.Text = lblStatus.Text + " Unable to send message to " +
cellnos(i) + "
"
                ' count no of failed cell
                failednos = failednos + 1
                ' store no of failed cell no
                lblCellno.Text = lblCellno.Text + "
Unsent " + cellnos(i) + ""

            ElseIf temp.Contains("DONE") Then
                lblStatus.Text = lblStatus.Text + " Message sent succesfully to "+
cellnos(i) + "
"
                lblCellno.Text = lblCellno.Text + "
Sent " + cellnos(i) + ""

            End If
            Session("Call_Once") = True 'now u can send other no for sms
            lblSent.Text = "Sent: " + (Int(Session("cellnoindex")) - failednos).ToString
+ " out of " + (cellnos.Length - 1).ToString
        ElseIf Int(Session("cellnoindex")) = cellnos.Length - 1 Then
            ''###now update the sms status
            lblStatus.Text = lblStatus.Text +
vinservice.updateSMSstatus(Session("logtime"), (cellnos.Length - failednos - 1).ToString
+ "/" + Session("cellnoindex").ToString, Session("status"))
            Session("Call_Once") = False
            vinservice.rebindGridView3(Session("CurrentQuery"), gvSMSlog)
            lblExe.Text = " Done: " + (cellnos.Length - failednos - 1).ToString +" out of
" + Session("cellnoindex").ToString + " message sent succesfully"
            Timer1.Enabled = False
        End If



    End Sub
    Protected Sub gvSMSlog_PageIndexChanging(ByVal sender As Object, ByVal e AsSystem.Web
.UI.WebControls.GridViewPageEventArgs) HandlesgvSMSlog.PageIndexChanging
        If gvSMSlog.DataSource.GetType().ToString = "System.Data.DataTable" Then
            ' gvSMSlog.DataSource = SortDataTable(gvSMSlog.DataSource, True)
            gvSMSlog.PageIndex = e.NewPageIndex
            Session("CurrentPage") = e.NewPageIndex
            gvSMSlog.DataBind()
        End If
    End Sub
    Protected Sub gvSMSlog_SelectedIndexChanged(ByVal sender As Object, ByVal eAs System.
EventArgs) Handles gvSMSlog.SelectedIndexChanged
        ' Bind current data
        '  gvSMSlog.DataSource = SortDataTable(gvSMSlog.DataSource, True)
        gvSMSlog.PageIndex = Session("CurrentPage")
        gvSMSlog.DataBind()
```

```vb
        ' Clear session variables

        Session("CurrentQuery") = Nothing

    End Sub
End Class
```

6. And finally here is the aspx code having ajax feature using timer and updatepanel to show real time sending status at client side.

```html
<div id="vincontent">
 <h2> <span style="font-weight:bold; color:#891E18;">Group Messaging</span>
       System</h2> <blockquote class="style1">Use This Feature to send group SMS within
LPHPP. You must have a master password to send ths SMS immediately. If you dont have any
then use "review" as master password and your SMS shall be sent later after
review.</blockquote>
        <asp:UpdatePanel ID="UpdatePanel1" runat="server">
        <ContentTemplate>

        <table> <tr ><td width="300px"> <fieldset><legend>Send SMS</legend> <table> <tr>
            <td class="style9">

                     <asp:Label ID="lblCell" runat="server" Text="Cell No:"
                        style="font-weight: 700"></asp:Label>
        </td> <td >
            <asp:TextBox ID="txtCell" runat="server" BorderColor="#009900"
                BorderStyle="Solid" BorderWidth="2px" CssClass="tbox"
Width="123px">+919411103810</asp:TextBox>
            <br /></td> </tr>
            <tr> <td class="style10" >
                <strong>Master Password:</strong> </td> <td class="style10" >
            <asp:TextBox ID="txtMasterPassword" runat="server" Width="171px"
                BorderColor="#009900" BorderStyle="Solid" BorderWidth="2px"
CssClass="tbox"
                TextMode="Password"></asp:TextBox>
                    <br />
                    <asp:Label ID="lblPwd" runat="server" ForeColor="Red"
                        Text="Default Password is &quot;review&quot;"></asp:Label>
            <br /> </td> </tr>
            <tr> <td >
                <strong>Select Group: </strong> </td> <td>
                    <asp:RadioButtonList ID="rblGroup" runat="server"
                RepeatDirection="Horizontal" Height="26px" Width="280px"
RepeatColumns="2">
                    <asp:ListItem Value="1">All Employees</asp:ListItem>
                    <asp:ListItem Value="2">All HoD's</asp:ListItem>
                    <asp:ListItem Value="3">IT Report</asp:ListItem>
                            <asp:ListItem Value="9">Test Group</asp:ListItem>
                </asp:RadioButtonList>
                 <br /> </td>  </tr>
                </table>
```

```
<asp:TextBox ID="txtSMS" runat="server" Height="72px" Width="300px"
    BorderColor="#009900" BorderStyle="Solid" BorderWidth="2px"
CssClass="tbox"
    TextMode="MultiLine"></asp:TextBox>
<asp:Button ID="btnSend" runat="server" Text="Send SMS" BorderColor="#009900"
    BorderWidth="2px" CssClass="button" />


<asp:Label ID="lblLogin" runat="server"></asp:Label>


</fieldset>
</td>

<td >   <asp:Label ID="lblExe" runat="server" Text="Execution"
    style="font-weight: 700"></asp:Label>
<br />
<asp:Label ID="lblSent" runat="server" ForeColor="#009900"></asp:Label>
<br />
<asp:Panel ID="Panel1"
    runat="server" Height="199px"
    ScrollBars="Vertical" Width="206px">
<asp:Label ID="lblCellno" runat="server"></asp:Label>
</asp:Panel>
</td>
<td >
<asp:Panel ID="Panel2" runat="server" Height="217px"
ScrollBars="Vertical"
    Width="150px">
<asp:Label ID="lblStatus" runat="server"></asp:Label>
</asp:Panel></td>
</tr>
</table>
<fieldset  Width="600px"  ><legend>SMS Log</legend>
<asp:GridView ID="gvSMSlog" runat="server" Height="109px" PageSize="10"
    Width="600px" AllowPaging="True"
        AutoGenerateColumns="False"
            EmptyDataText="No records found" GridLines="None"
    BorderWidth="2px">
            <Columns>
                <asp:BoundField DataField="smsid"  ShowHeader="False"
                    HeaderText="smsID" >
                <HeaderStyle HorizontalAlign="Left" BackColor="#009933"
ForeColor="White" />
                <ItemStyle Font-Size="8pt" />
                </asp:BoundField>
                <asp:HyperLinkField DataTextField="requestby"
HeaderText="Sent By"
                    Text="requestby" DataNavigateUrlFields="requestby"
Target="_blank"

DataNavigateUrlFormatString="departments.aspx?showemp={0}">
                    <HeaderStyle HorizontalAlign="Left" BackColor="#009933"
ForeColor="White" />
                <ItemStyle ForeColor="#FF0066" Font-Size="8pt" />
                </asp:HyperLinkField>
```

```
                            <asp:BoundField DataField="message"  ShowHeader="False"
HeaderText="Messgae" >
                                <HeaderStyle HorizontalAlign="Left" BackColor="#009933"
ForeColor="White" />

                                <ItemStyle  Font-Size="8pt" />
                                </asp:BoundField>
                                <asp:BoundField DataField="requesttime1"  ShowHeader="False"
HeaderText="Time" >
                                <HeaderStyle HorizontalAlign="Left" BackColor="#009933"
ForeColor="White" />

                                <ItemStyle Width="10%" Font-Size="8pt" />
                                </asp:BoundField>
                                  <asp:BoundField DataField="groupid"  ShowHeader="False"
HeaderText="Group" >
                                <HeaderStyle HorizontalAlign="Left" BackColor="#009933"
ForeColor="White" />

                                <ItemStyle Width="4%" Font-Size="8pt" />
                                </asp:BoundField>
                                 <asp:BoundField DataField="status"  ShowHeader="False"
HeaderText="Status" >
                                <HeaderStyle HorizontalAlign="Left" BackColor="#009933"
ForeColor="White" />

                                <ItemStyle Width="8%" Font-Size="8pt" />
                                </asp:BoundField>
                                 <asp:BoundField DataField="successratio"  ShowHeader="False"
HeaderText="Sent" >
                                <HeaderStyle HorizontalAlign="Left" BackColor="#009933"
ForeColor="White" />

                                <ItemStyle Width="5%" Font-Size="8pt" />
                                </asp:BoundField>

                    </Columns>
                    </asp:GridView>
        </fieldset>
            <asp:Timer ID="Timer1" runat="server">
            </asp:Timer>


        </ContentTemplate>
        </asp:UpdatePanel>

    </div>
    </div>
    </form>
</body>
</html>
```