

BAB 5

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Kesimpulan yang dapat diambil dari penelitian ini adalah SMS *Gateway* berbasis *AT Command* yang digunakan sebagai *information retriveal* data barang dapat berjalan dengan baik. Sebagi *modem* digunakan *ponsel* Motorola v-Series karena *handphone* tersebut memiliki koneksi yang stabil dengan komputer server, selain itu *handphone* ini juga memiliki *AT Command* yang lengkap dan dapat dijalankan dengan baik tanpa terjadi *error*. Rata-rata waktu untuk mengirimkan satu SMS balasan dari SMS server sekitar 8 detik. Interval *function timer* yang dijalankan adalah 5 detik. Proses pengaktifan server SMS *Gateway*, dan proses pengiriman SMS yang dilakukan dalam waktu yang berbeda menghasilkan jeda waktu. Sehingga dari data yang diperoleh dapat ditarik kesimpulan rata-rata waktu untuk mengirimkan satu SMS balasan dari server SMS *Gateway* sekitar 8 detik. Selain itu layanan jaringan Telephone selular sangat berpengaruh terhadap kinerja dari SMS *Gateway* ini, hal ini disebabkan karena SMS *Gateway* ini menggunakan layanan jaringan *GSM* untuk menerima dan mengirim pesan SMS balasan. Keberhasilan pengiriman SMS balasan dari server SMS *Gateway* berjalan dengan sempurna, dan sesuai dengan informasi yang diminta oleh pengirim SMS.

5.2 Saran

Berdasarkan hasil penelitian pada perancangan prototip yang dibuat, maka untuk perkembangan selanjutnya disarankan agar:

1. Komputer *server* memiliki *back up power supply*, hal ini dilakukan untuk mengatasi jika listrik padam.
2. Untuk aktivitas layanan yang padat/ramai sebaiknya digunakan *GSM Modem*, sebagai *Modem* dari *SMS Server*.
3. Adanya sistem manajemen yang baik terhadap pengolahan data dan *update data* pada *database*.
4. Adanya pengelolaan layanan jaringan *GSM* yang mendukung Sistem kerja dari *SMS Gateway*, sebagai contoh: pelayanan pengisian pulsa secara berkala, atau digunakan pulsa pasca bayar.
5. Adanya pengawasan *server SMS Gateway* dalam jangka Waktu tertentu, untuk pengecekan jika terjadi *error*.

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LAMPIRAN

Lampiran 1(Listing function terima)

```
Function terima(ByVal strAlat As String, ByVal intPort As
Integer, ByVal sODBC As String) As Integer
-----
    Dim LISTING(2) As String
    Dim splits() As String

    Dim no() As String
    Dim pdu() As String
    Dim nol() As String
    Dim no2() As String
    Dim tmpdu() As String
    Dim intPdu() As Integer

    Dim waktu As Date

    Dim con As Object
    Dim rs As Object
    Dim sSQL As String

    Dim mscomm2 As Object
    Set mscomm2 = CreateObject("MSCOMM2.MSCOMM")

    terima = 0
    With mscomm2

        On Error GoTo err_handler

        .CommPort = 1
        .Settings = "115200,N,8,1"

        .InputLen = 0

        .PortOpen = True

        waktu = Now

        Do
            .Output = "ATE1" & Chr$(13)
            .Output = "AT+CMGF=0" & Chr$(13) & Chr(10)
            Do
                DoEvents
                buffer$ = buffer$ & .Input
            Loop Until InStr(buffer$, "OK") Or
            InStr(buffer$, "ERROR") Or Now > DateAdd("s", 10, waktu)
            Loop Until InStr(buffer$, "OK") Or Now >
            DateAdd("s", 10, waktu)
    End With
```

```

If InStr(buffer$, "OK") Then
    Set con = CreateObject("ADODB.Connection")
    Set rs = CreateObject("ADODB.Recordset")
    con.Open SODBC, "", ""
    sSQL = "SELECT * FROM tblSMS"
    rs.Open sSQL, con, 1, 3

    For j = 0 To 1
        buffer1$ = ""
        buffer4$ = ""
        Do
            .Output = "AT+CMGL=" & j & Chr$(13)
            Do
                DoEvents
                buffer1$ = buffer1$ & .Input
            Loop Until InStr(buffer1$, "OK") Or
InStr(buffer1$, "ERROR")
            Loop Until InStr(buffer1$, "OK")

            LISTING(j) = buffer1$
            splits() = Split(LISTING(j), Chr$(13), ,
vbTextCompare)
            If UBound(splits()) < 5 Then
                terima = terima
            Else
                jum = (UBound(splits()) - 4) / 2
                terima = terima + jum

                ReDim no(jum + 1)
                ReDim pdu(jum + 1)
                ReDim tmp pdu(jum + 1, 3)
                ReDim intPdu(jum + 1, 3)

                For i = 1 To jum
                    no(i) = splits(i * 2)
                    pdu(i) = splits(i * 2 + 1)
                Next i

                For i = 1 To jum
                    no1() = Split(no(i), " ", ,
vbTextCompare)
                    no(i) = no1(1)
                Next i

                For i = 1 To jum
                    no2() = Split(no(i), ",",
vbTextCompare)
                    no(i) = no2(0)
                Next i

                For i = 1 To jum

```

```

Do
    .Output = "AT+CMGD=" & no(i) &
Chr$(13)
    Do
        DoEvents
        buffer4$ = buffer4$ & .Input
        Loop Until InStr(buffer4$, "OK")
Or InStr(buffer4$, "ERROR")
    Loop Until InStr(buffer4$, "OK")
    Next i

    For i = 1 To jum
        intPdu(i, 0) = 5 + 2 *
hex2lng(Mid(pdu(i), 2, 2)) '1 + pj + smsc + 04
        intPdu(i, 1) = 4 +
hex2lng(Mid(pdu(i), intPdu(i, 0) + 1, 2)) 'pj + 91/81 +
dari
        If intPdu(i, 1) Mod 2 = 1 Then
intPdu(i, 1) = intPdu(i, 1) + 1 'qjl jd qnp
            tmpdu(i, 0) = Mid(pdu(i), intPdu(i,
0) + 3, intPdu(i, 1) - 2) '91/81 + dari
            tmpdu(i, 1) = Mid(pdu(i), intPdu(i,
0) + intPdu(i, 1) + 5, 12) 'waktu
            intPdu(i, 2) = hex2lng(Mid(pdu(i),
intPdu(i, 0) + intPdu(i, 1) + 19, 2)) 'pj isi
            tmpdu(i, 2) = Mid(pdu(i), intPdu(i,
0) + intPdu(i, 1) + 21, Len(pdu(i)) - intPdu(i, 0) -
intPdu(i, 1) - 20)
            If Len(tmpdu(i, 2)) < intPdu(i, 2) *
2 Then
                tmpdu(i, 2) = tmpdu(i, 2) &
String$((intPdu(i, 2) * 2 - Len(tmpdu(i, 2))), "0")
            End If
        Next i

        For i = 1 To jum
            rs.AddNew
            rs(1).Value = no(i)
            rs(2).Value = balikinNo(tmpdu(i, 0))
            rs(3).Value =
str2dt(balikinDt(tmpdu(i, 1)))
            rs(4).Value = balikinIsi(tmpdu(i,
2))
            rs.Update
        Next i
    End If
    Next j

    rs.Close
    con.Close
    Set rs = Nothing

```

```
        Set con = Nothing
End If
.PortOpen = False
Set mscomm2 = Nothing
End With
err_handler:
If Err.Number = 8005 Or Err.Number = 8002 Then
    Set mscomm2 = Nothing
    Exit Function
End If
End Function
```



Lampiran 2 (Function modul Terima)

```
Function BINER7(ByVal angka As Integer) As String
    If angka > 1 Then
        Dim i As Integer
        Dim hasil(8) As Integer
        Dim SISA(8) As Integer

        i = 1
        Do
            hasil(i) = Int(angka / 2)
            SISA(i) = angka Mod 2
            angka = hasil(i)
            i = i + 1
            BINER7 = SISA(i - 1) & BINER7
        Loop Until hasil(i - 1) < 2
        BINER7 = hasil(i - 1) & BINER7
        BINER7 = String$(7 - Len(BINER7), "0") & BINER7
    ElseIf angka = 1 Then
        BINER7 = "0000001"
    ElseIf angka = 0 Then
        BINER7 = "0000000"
    End If
End Function

Function BINER4(ByVal angka As Integer) As String
    If angka > 1 Then
        Dim i As Integer
        Dim hasil(5) As Integer
        Dim SISA(5) As Integer

        i = 1
        Do
            hasil(i) = Int(angka / 2)
            SISA(i) = angka Mod 2
            angka = hasil(i)
            i = i + 1
            BINER4 = SISA(i - 1) & BINER4
        Loop Until hasil(i - 1) < 2
        BINER4 = hasil(i - 1) & BINER4
        BINER4 = String$(4 - Len(BINER4), "0") & BINER4
    ElseIf angka = 1 Then
        BINER4 = "0001"
    ElseIf angka = 0 Then
        BINER4 = "0000"
    End If
End Function
```

```
Function DEBINER7(ByVal huruf As String) As Integer
    Dim angka(8) As Integer

    For i = 1 To 7
        angka(i) = Val(Mid(huruf, i, 1))
        DEBINER7 = DEBINER7 + angka(i) * 2 ^ (7 - i)
    Next i

End Function

Function DEBINER4(ByVal huruf As String) As Integer
    Dim angka(5) As Integer

    For i = 1 To 4
        angka(i) = Val(Mid(huruf, i, 1))
        DEBINER4 = DEBINER4 + angka(i) * 2 ^ (4 - i)
    Next i
End Function

Function TOOTH(ByVal karakter As String) As Integer
    Dim pc As Integer

    pc = Asc(karakter)
    If pc = 64 Then
        TOOTH = 0
    ElseIf pc = 36 Then
        TOOTH = 2
    ElseIf pc = 223 Then
        TOOTH = 30
    ElseIf pc >= 32 And pc <= 35 Then
        TOOTH = pc
    ElseIf pc >= 37 And pc <= 63 Then
        TOOTH = pc
    ElseIf pc = 95 Then
        TOOTH = 64
    ElseIf pc >= 65 And pc <= 90 Then
        TOOTH = pc
    ElseIf pc = 196 Then
        TOOTH = 91
    ElseIf pc = 214 Then
        TOOTH = 92
    ElseIf pc = 220 Then
        TOOTH = 94
    ElseIf pc = 168 Then
        TOOTH = 96
    ElseIf pc >= 97 And pc <= 122 Then
        TOOTH = pc
    ElseIf pc = 228 Then
        TOOTH = 123
    ElseIf pc = 246 Then
        TOOTH = 124
```

```
ElseIf pc = 252 Then
    TOOTH = 126
End If
End Function

Function DETOOTH(ByVal pc As Integer) As String
    Dim TOOTH As Integer
    If pc = 0 Then
        TOOTH = 64
    ElseIf pc = 2 Then
        TOOTH = 36
    ElseIf pc = 30 Then
        TOOTH = 223
    ElseIf pc >= 32 And pc <= 35 Then
        TOOTH = pc
    ElseIf pc >= 37 And pc <= 63 Then
        TOOTH = pc
    ElseIf pc = 64 Then
        TOOTH = 95
    ElseIf pc >= 65 And pc <= 90 Then
        TOOTH = pc
    ElseIf pc = 91 Then
        TOOTH = 196
    ElseIf pc = 92 Then
        TOOTH = 214
    ElseIf pc = 94 Then
        TOOTH = 220
    ElseIf pc = 96 Then
        TOOTH = 168
    ElseIf pc >= 97 And pc <= 122 Then
        TOOTH = pc
    ElseIf pc = 123 Then
        TOOTH = 228
    ElseIf pc = 124 Then
        TOOTH = 246
    ElseIf pc = 126 Then
        TOOTH = 252
    End If
    DETOOTH = Chr(TOOTH)
End Function

Function UbahIsi(ByVal strIsi As String) As String
    Dim pj As Integer
    Dim potongan() As String
    Dim empatan() As String
    Dim hasil() As String
    Dim tamp As String

    pj = Len(strIsi)
    ReDim potongan(pj + 1)
```

```

ReDim empatan(pj + 1, 3)
ReDim hasil(pj + 1, 3)

tamp = String$(pj, "0")

For i = 1 To pj
    tamp = tamp & BINER7(TOOTH(Mid(strIsi, pj - i + 1,
1)))
Next i

For i = pj To 1 Step -1
    potongan(i) = Mid(tamp, (8 * (i - 1)) + 1, 8)
    empatan(i, 1) = Mid(potongan(i), 1, 4)
    empatan(i, 2) = Mid(potongan(i), 5, 4)
    hasil(i, 1) = Hex$(DEBINER4(empatan(i, 1)))
    hasil(i, 2) = Hex$(DEBINER4(empatan(i, 2)))
    UbahIsi = UbahIsi & hasil(i, 1) & hasil(i, 2)
Next i
End Function

-----
Function UbahNo(ByVal strNomor As String) As String
    Dim pj As Integer
    Dim tamp() As String
    Dim hasil() As String

    pj = Len(strNomor)
    If pj Mod 2 = 1 Then strNomor = strNomor & "F"
    pj = Len(strNomor)

    ReDim tamp(pj / 2 + 1)
    ReDim hasil(pj / 2 + 1, 3)

    For i = 1 To pj / 2
        tamp(i) = Mid(strNomor, (i - 1) * 2 + 1, 2)
        hasil(i, 1) = Right(tamp(i), 1)
        hasil(i, 2) = Left(tamp(i), 1)
        UbahNo = UbahNo & hasil(i, 1) & hasil(i, 2)
    Next i
End Function

-----
Function balikinIsi(ByVal isi As String) As String
    Dim pj As Integer
    Dim splits() As String
    Dim tmp As String, tmpl As String
    Dim bnr() As String
    Dim d7() As String
    Dim i7() As Integer

    pj = Len(isi)
    ReDim splits(pj / 2)
    ReDim bnr(pj)

```

```

For i = 0 To pj / 2 - 1
    splits(i) = balik(Mid(isi, 2 * i + 1, 2))
    tmp = tmp + splits(i)
Next i
tmp = StrReverse(tmp)

For i = 0 To pj - 1
    bnr(i) = BINER4(antiHex(Mid(tmp, i + 1, 1)))
    tmp1 = tmp1 & bnr(i)
Next i
tmp1 = Right(tmp1, pj / 2 * 7)

ReDim d7(Len(tmp1) / 7)
ReDim i7(Len(tmp1) / 7)

For i = 0 To Len(tmp1) / 7 - 1
    d7(i) = Mid(tmp1, 7 * i + 1, 7)
    i7(i) = DEBINER7(d7(i))
    d7(i) = DETOOTH(i7(i))
    balikinIsi = d7(i) & balikinIsi
Next i
End Function

Function balikinNo(ByVal strNo As String) As String
    Dim pj As Integer
    Dim splits() As String

    pj = Len(strNo)
    ReDim splits(pj / 2 - 1)

    If Left(strNo, 1) = "9" Then
        For i = 0 To pj / 2 - 2
            splits(i) = balik(Mid(strNo, 2 * i + 3, 2))
            balikinNo = balikinNo & splits(i)
            balikinNo = Replace(balikinNo, "F", "")
        Next i
    Else
        balikinNo = 62
        For i = 0 To pj / 2 - 2
            If i = 0 Then
                splits(i) = Left((Mid(strNo, 2 * i + 3, 2)), 1)
            Else
                splits(i) = balik(Mid(strNo, 2 * i + 3, 2))
            End If
            balikinNo = balikinNo & splits(i)
            balikinNo = Replace(balikinNo, "F", "")
        Next i
    End If
End Function

```

```

        End If
End Function
-----
Function balikinDt(ByVal strDt As String) As String
    Dim splits(6) As String
    For i = 0 To 5
        splits(i) = balik(Mid(strDt, 2 * i + 1, 2))
        balikinDt = balikinDt & splits(i)
    Next i
End Function
-----
Function str2dt(ByVal strDt As String) As Date
    Dim spl(6) As String
    spl(0) = Mid(strDt, 3, 2)
    spl(1) = Mid(strDt, 5, 2)
    spl(2) = Mid(strDt, 1, 2)
    spl(3) = Mid(strDt, 7, 2)
    spl(4) = Mid(strDt, 9, 2)
    spl(5) = Mid(strDt, 11, 2)
    str2dt = CDate(spl(0) & "/" & spl(1) & "/" & spl(2) &
" & _
spl(3) & ":" & spl(4) & ":" & spl(5))
End Function
-----
Function balik(ByVal strDuo As String) As String
    balik = Right(strDuo, 1) & Left(strDuo, 1)
End Function
-----
Function lng2hex(ByVal lngBil As Long) As String
    lng2hex = Hex$(lngBil)
    If Len(lng2hex) = 1 Then
        lng2hex = "0" & lng2hex
    End If
End Function
-----
Function hex2lng(ByVal strHex As String) As Long
    Dim strH(2) As String
    Dim intL(2) As Integer

    strH(0) = Left(strHex, 1)
    strH(1) = Right(strHex, 1)

    For i = 0 To 1
        If Asc(strH(i)) >= 48 And Asc(strH(i)) <= 57 Then
            intL(i) = Asc(strH(i)) - 48

```

```
        ElseIf Asc(strH(i)) >= 65 And Asc(strH(i)) <= 70
Then
        intL(i) = Asc(strH(i)) - 55
    End If
Next i

hex2Int = 16 * intL(0) + intL(1)
End Function

-----
Function antiHex(ByVal strHex As String) As Integer
If Asc(strHex) >= 48 And Asc(strHex) <= 57 Then
    antiHex = Asc(strHex) - 48
ElseIf Asc(strHex) >= 65 And Asc(strHex) <= 70 Then
    antiHex = Asc(strHex) - 55
End If
End Function
```

Lampiran 3 (Function send SMS)

```
Function sendsms(ByVal strMSC As String, ByVal strNoHP As
String, ByVal strMessage As String)
-----
Dim MSComm1 As Object
Dim waktu As Date
Set MSComm1 = CreateObject("MSCOMM.1")
With MSComm1
    .CommPort = 1
    .InputLen = 0
    .Settings = "115200,N,8,1"
    .PortOpen = True
    waktu = Now
    .Output = "AT" & Chr$(13) & Chr(10)
    .Output = "AT+CMGF=1" & Chr$(13) & Chr(10)
    .Output = "AT+CSCA=" & Chr(34) & strMSC & Chr(34) & Chr$(13)
    & Chr(10)
    .Output = "AT+CMGS=" & Chr(34) & strNoHP & Chr(34) &
Chr$(13) & Chr(10)
    .Output = strMessage & Chr$(13) & Chr(26) & Chr$(13) &
Chr(10)
    Do
        DoEvents
        BUFFER$ = BUFFER$ & .Input
        Loop Until InStr(BUFFER$, "OK") Or Now > DateAdd("s", 10,
waktu)
        If InStr(BUFFER$, "OK") Then
            MsgBox "Message sent"
        Else
            MsgBox "Unable to send message"
        End If
        .PortOpen = False
    End With
End Function
```

Lampiran 4 (Listing VB, Basis data, dan Timer)

```
Dim con As New ADODB.Connection 'Membuka koneksi database
Dim rs As New ADODB.Recordset 'menyimpan data pada recordset
-----
Private Sub Command1_Click()
Dim nohp As String
Dim Message As String
Dim dummy As Integer
    Dim counter As Integer
    Dim waktu As Date
    Dim msql As String
    Dim No_Penerima As String
    Dim isi As String
    Dim msgid As String
    Dim kirim_ok As Boolean
    Dim nopenerima As String
    Dim product_code As String
    Dim produt_code2 As String
    Dim product_code3 As String
    Dim blnsukses As Boolean
    Dim password As String
    Dim objSMS As Object
    Set objSMS = CreateObject("SMS.csMS")
    Label3.Caption = "Auto Respon Connected"
    dummy = objSMS.terima("me", 1, "odbcSMS")
    msql = "select*from tbLSMS"
    Set rs = con.Execute(msql)
    If rs.EOF Then
        'MsgBox "No SMS Message"
    Else
        rs.MoveFirst
        No_Penerima = rs.Fields("dari")
        isi = rs.Fields("isi")
        msgid = Format(rs.Fields("msgid"), "##")
        msql = "insert into tbLLOG select * from tbLSMS where
msgid=" & msgid & ""
        rs_q = con.Execute(msql)
        msql = "select nama from tbLNama where nomer=" &
No_Penerima & ""
        Set rswer = con.Execute(msql)
        If Not rswer.EOF Then
            nama = rswer.Fields("nama")
        Else
            msqll = "delete from tbLSMS where msgid=" & msgid & ""
            Set rs = con.Execute(msqll)
        End If
        'dataquery
        password = Left(isi, 4)
        'password check
        If password = "Info" Then
```

```

pjg = Len(isi)
code = Mid(isi, 6, 8)
code2 = Left(code, 4)
code3 = Right(code, 4)
idx = pjg - 5
    product_code = Right(isi, 2)
    product_code2 = Left(code, 2)
    product_code3 = Right(code2, 2)
    product_code4 = Left(code3, 2)
    nohp = No_Penerima
Else
    msq11 = "delete from tblsms where msgid=" &
msgid & ""
        Set rs = con.Execute(msq11)
End If

If isi = "???" Then
    'send sms
    nohp = No_Penerima
    Message = ("ketik;Info
kodebarang1kodebarang2kodebarang3kodebarang4")
    msc = Trim("+62818445009")
    sukses = sendsms(msc, nohp, Message)
End If

If idx = 2 And password = "Info" Then
    msq11 = "select Jumlah from DataBarang where
KodeBarang=''' & product_code & '''"
        msq12 = "select namabarang from databarang where
kodebarang=''' & product_code & '''"
        msq13 = "select harga from databarang where
kodebarang=''' & product_code & '''"

        Set rs_data = con.Execute(msq11)
        Set rs_datas = con.Execute(msq12)
        Set rs_dataq = con.Execute(msq13)

If rs_data.EOF Or rs_datas.EOF Or rs_dataq.EOF Then
    'send sms
        nohp = Trim(No_Penerima)
        Message = Trim("data tidak ditemukan/kode salah
")
        msc = Trim("+62818445009")
        sukses = sendsms(msc, nohp, Message)
Else
    jumlah = rs_data.Fields("Jumlah")

```

```

namabarang = rs_datas.Fields("namabarang")
harga = rs_dataq.Fields("harga")

'send sms

nohp = Trim(No_Penerima)
Message = ("'" & product_code & "=" &
(namabarang) & ";stk= " & jumlah & ";"hrg= " & harga)
msc = Trim("+62818445009")
sukses = sendsms(msc, nohp, Message)
End If
'delete data
msql1 = "delete from tblsms where msgid=" &
msgid & ""
Set rs_data = con.Execute(msql1)
End If
If idx = 4 And password = "Info" Then
msql1 = "select Jumlah from DataBarang where KodeBarang=''" &
product_code & "'"
msql2 = "select Jumlah from DataBarang where KodeBarang=''" &
product_code2 & "'"
msql3 = "select namabarang from DataBarang where
KodeBarang=''" & product_code & "'"
msql4 = "select namabarang from DataBarang where
KodeBarang=''" & product_code2 & "'"
msql5 = "select harga from DataBarang where KodeBarang=''" &
product_code & "'"
msql6 = "select harga from DataBarang where KodeBarang=''" &
product_code2 & "'"

Set rs_barang = con.Execute(msql1)
Set rs_barange = con.Execute(msql2)
Set rs_barangea = con.Execute(msql3)
Set rs_barangeas = con.Execute(msql4)
Set rs_barangeasd = con.Execute(msql5)
Set rs_barangeasdf = con.Execute(msql6)

If rs_barang.EOF Or rs_barange.EOF Or rs_barangea.EOF Then
'Send SMS
    nohp = Trim(No_Penerima)
    Message = Trim("data tidak ditemukan/kode salah
")
    msc = Trim("+62818445009")
    sukses = sendsms(msc, nohp, Message)
    Else
jumlah1 = rs_barang.Fields("jumlah")
jumlah2 = rs_barange.Fields("jumlah")
namabarang1 = rs_barangea.Fields("namabarang")

```

```

namabarang2 = rs_barangeas.Fields("namabarang")
harga1 = rs_barangeasd.Fields("harga")
harga2 = rs_barangeasdf.Fields("harga")

'send sms

nohp = Trim(No_Penerima)
Message = Trim("") & product_code & "=" & (namabarang1) &
";stk " & jumlah1 & ";hrg=" & hargal & ";" & product_code2 &
"=" & (namabarang2) & ";stk=" & jumlah2 & ";hrg= " & harga2)
msc = Trim("+62818445009")
sukses = sendsms(msc, nohp, Message)
End If
'delete data
msql1 = "delete from tblsms where msgid=" &
msgid & ""
Set rs = con.Execute(msql1)
End If

If idx = 6 And password = "Info" Then
msql1 = "select Jumlah from DataBarang where KodeBarang=''" &
product_code & ""
msql2 = "select Jumlah from DataBarang where KodeBarang=''" &
product_code2 & ""
msql3 = "select jumlah from Databarang where kodebarang=''" &
product_code3 & ""
msql4 = "select namabarang from DataBarang where
KodeBarang=''" & product_code & ""
msql5 = "select namabarang from DataBarang where
KodeBarang=''" & product_code2 & ""
msql6 = "select namabarang from Databarang where
kodebarang=''" & product_code3 & ""
msql7 = "select harga from DataBarang where KodeBarang=''" &
product_code & ""
msql8 = "select harga from DataBarang where KodeBarang=''" &
product_code2 & ""
msql9 = "select harga from Databarang where kodebarang=''" &
product_code3 & ""

Set rs_la = con.Execute(msql1)
Set rs_lap = con.Execute(msql2)
Set rs_lape = con.Execute(msql3)
Set rs_lapew = con.Execute(msql4)
Set rs_lapewq = con.Execute(msql5)
Set rs_lala = con.Execute(msql6)
Set rs_lulu = con.Execute(msql7)
Set rs_luluh = con.Execute(msql8)
Set rs_data = con.Execute(msql9)
If rs_la.EOF Or rs_lap.EOF Or rs_lape.EOF Then
' Send SMS
    nohp = Trim(No_Penerima)

```

```

        Message = ("data tidak ditemukan/kode salah ")
        msc = Trim("+62818445009")
        sukses = sendsms(msc, nohp, Message)
        Else
            jumlah1 = rs_la.Fields("jumlah")
            jumlah2 = rs_lap.Fields("jumlah")
            jumlah3 = rs_lape.Fields("jumlah")
            namabarang1 = rs_lapew.Fields("namabarang")
            namabarang2 = rs_lapewq.Fields("namabarang")
            namabarang3 = rs_lala.Fields("namabarang")
            hargal = rs_lulu.Fields("harga")
            harga2 = rs_luluh.Fields("harga")
            harga3 = rs_data.Fields("harga")
            'send sms
            nohp = Trim(No_Penerima)
            Message = ("'" & product_code & "=" &
            (namabarang1) & ";stk=" & jumlah1 & ";hrg=" & hargal & ";" &
            product_code2 & "=" & (namabarang2) & ";stk=" & jumlah2 &
            ";hrg=" & harga2 & ";" & product_code3 & "=" &
            (namabarang3) & ";stk=" & jumlah3 & ";hrg=" & harga3)
            msc = Trim("+62818445009")
            hitung = Len(Message)
            sukses = sendsms(msc, nohp, Message)
        End If
        'delete data
        msq11 = "delete from tblsms where msgid=" &
        msgid & ""
        Set rs = con.Execute(msq11)
        End if
    If idx = 8 And password = "Info" Then
        msq11 = "select Jumlah from DataBarang where Kodebarang=''" &
        product_code & "'"
        msq12 = "select Jumlah from DataBarang where Kodebarang=''" &
        product_code2 & "'"
        msq13 = "select jumlah from Databarang where kodebarang=''" &
        product_code3 & "'"
        msq14 = "select jumlah from Databarang where kodebarang=''" &
        product_code4 & "'"
        msq15 = "select namabarang from DataBarang where
        Kodebarang=''" & product_code & "'"
        msq16 = "select namabarang from DataBarang where
        Kodebarang=''" & product_code2 & "'"
        msq17 = "select namabarang from Databarang where
        kodebarang=''" & product_code3 & "'"
        msq18 = "select namabarang from Databarang where
        kodebarang=''" & product_code4 & "'"
        msq19 = "select harga from DataBarang where Kodebarang=''" &
        product_code & "'"
        msq10 = "select harga from DataBarang where Kodebarang=''" &
        product_code2 & "'"

```

```

msql11 = "select harga from Databarang where kodebarang=''" &
product_code3 & "'"
msql12 = "select harga from Databarang where kodebarang=''" &
product_code4 & "'"
Set rs_la = con.Execute(msql1)
Set rs_lap = con.Execute(msql2)
Set rs_lape = con.Execute(msql3)
Set rs_lapew = con.Execute(msql4)
Set rs_lapewq = con.Execute(msql5)
Set rs_lala = con.Execute(msql6)
Set rs_lulu = con.Execute(msql7)
Set rs_luluh = con.Execute(msql8)
Set rs_data = con.Execute(msql9)
Set rs_l = con.Execute(msql10)
Set rs_a = con.Execute(msql11)
Set rs_qmen = con.Execute(msql12)

If rs_la.EOF Or rs_lap.EOF Or rs_lape.EOF Or
rs_lapew.EOF Then
    ' Send SMS
    nohp = Trim(No_Penerima)
    Message = ("data tidak ditemukan/kode salah ")
    msc = Trim("+62818445009")
    sukses = sendsms(msc, nohp, Message)
Else
    jumlah1 = rs_la.Fields("jumlah")
    jumlah2 = rs_lap.Fields("jumlah")
    jumlah3 = rs_lape.Fields("jumlah")
    jumlah4 = rs_lapew.Fields("jumlah")
    namabarang1 = rs_lapewq.Fields("namabarang")
    namabarang2 = rs_lala.Fields("namabarang")
    namabarang3 = rs_lulu.Fields("namabarang")
    namabarang4 = rs_luluh.Fields("namabarang")

    hargal = rs_data.Fields("harga")
    harga2 = rs_l.Fields("harga")
    harga3 = rs_a.Fields("harga")
    harga4 = rs_qmen.Fields("harga")

    ' Send SMS
    nohp = Trim(No_Penerima)
    Message = ("'" & product_code & "=" &
(namabarang1) & ";" & stk= " & jumlah1 & ";" & hrg= " & hargal & ";" &
& product_code2 & "=" & (namabarang2) & ";" & stk= " & jumlah2 &
"&" & hrg= " & harga2 & ";" & product_code3 & "=" & namabarang3
&" & ;stk= " & jumlah3 & ";" & hrg= " & harga3 & ";" &
product_code4 & "=" & (namabarang4) & ";" & stk= " & jumlah4 &
"&" & hrg= " & harga4)
    msc = Trim("+62818445009")
    hitung = Len(Message)
    sukses = sendsms(msc, nohp, Message)

```

```
End If

'delete data

msql1 = "delete from tblsms where msgid=" & msgid & ""
Set rs = con.Execute(msql1)
End If
If idx <> 2 And idx <> 4 And idx <> 6 And idx <> 8 Then
msql1 = "delete from tblsms where msgid=" & msgid & ""
Set rs = con.Execute(msql1)
End If
End If
End Sub

Private Sub Command2_Click()
Timer1.Enabled = False
Label3.Caption = "Auto Respon Stop"
End Sub
-----
Private Sub Command3_Click()
Dim nohp As String
Dim Message As String
nohp = Text3.Text
Message = Text2.Text
If Text3.Text = "" Then
MsgBox "nomer tujuan kosong"
End If
msc = Trim("+62818445009")
sukses = sendsms(msc, nohp, Message)
Text3.Text = ""
Text2.Text = ""
End Sub
-----
Private Sub Command4_Click()
End
End Sub
-----
Private Sub Command5_Click()
Timer1.Enabled = True
Timer1.Interval = 1000 * 5
Label3.Caption = "Auto respon connect"
End Sub
-----
Private Sub form_Load()
Label3.Caption = "Auto Respon Not Connected"
Me.Left = (Screen.Width - Me.Width) / 2
Me.Top = (Screen.Height - Me.Height) / 2
```

```
Dim msql As String
'koneksi ke database
Set con = New ADODB.Connection
con.Open ("Provider=MSDASQL.1;Persist Security
Info=False;Data Source=odbcSMS")
Timer1.Enabled = True
Timer1.Interval = 1000 * 5
Timer2.Enabled = True
Timer2.Interval = 1000 * 2
Timer3.Interval = 1000 * 2
Timer3.Enabled = True
Timer4.Interval = 1000 * 2
Timer4.Enabled = True
Timer6.Enabled = True
Timer6.Interval = 1000 * 18
Timer7.Enabled = True
Timer7.Interval = 1000 * 10
End Sub
-----
Private Sub Text2_KeyPress(KeyAscii As Integer)
KeyAscii = Asc(UCase(Chr(KeyAscii)))
If KeyAscii = 13 Then
Command3.SetFocus
End If
End Sub
-----
Private Sub Text3_KeyPress(KeyAscii As Integer)
KeyAscii = Asc(UCase(Chr(KeyAscii)))
If KeyAscii = 13 Then
Text2.SetFocus
End If
End Sub
-----
Private Sub Timer1_Timer()
Command1_Click
End Sub
-----
Private Sub Timer2_Timer()
Label1.ForeColor = RGB(Rnd * 255, Rnd * 255, Rnd * 255)
End Sub
-----
Private Sub Timer3_Timer()
Label6.ForeColor = RGB(Rnd * 255, Rnd * 255, Rnd * 255)
End Sub
-----
Private Sub Timer4_Timer()
Label2.ForeColor = RGB(Rnd * 255, Rnd * 255, Rnd * 255)
End Sub
-----
Private Sub Timer6_Timer()
Adodc1.Refresh
```

```
DataGrid1.Refresh  
End Sub
```

```
-----  
Private Sub Timer7_Timer()  
Adodc2.Refresh  
DataGrid2.Refresh  
End Sub  
-----
```



Lampiran Skema data 7 bit

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| b6 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | |
| b5 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | |
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