

Coding Form RTEvents

```
Imports System.Data.SqlClient
Public Class RTEvents

    'Create Standalone SDK class dynamically.
    Public axCZKEM1 As New zkemkeeper.CZKEM
    #Region "Communication"
    Private bIsConnected = False
    Private iMachineNumber As Integer
    Private Sub btnConnect_Click(ByVal sender As System.Object, ByVal e
    As System.EventArgs) Handles btnConnect.Click
        If txtIP.Text.Trim() = "" Or txtPort.Text.Trim() = "" Then
            MsgBox("IP and Port cannot be null", MsgBoxStyle.Exclamation, "Error")
        Return
        End If
        Dim idwErrorCode As Integer
        Cursor = Cursors.WaitCursor
        If btnConnect.Text = "Disconnect" Then
            axCZKEM1.Disconnect()

            RemoveHandler axCZKEM1.OnFinger, AddressOf AxCZKEM1_OnFinger
            RemoveHandler axCZKEM1.OnFingerFeature, AddressOf AxCZKEM1_OnFingerFeature
            RemoveHandler axCZKEM1.OnVerify, AddressOf AxCZKEM1_OnVerify
            RemoveHandler axCZKEM1.OnAttTransaction, AddressOf AxCZKEM1_OnAttTransaction
            RemoveHandler axCZKEM1.OnAttTransactionEx, AddressOf AxCZKEM1_OnAttTransactionEx
            RemoveHandler axCZKEM1.OnKeyPress, AddressOf AxCZKEM1_OnKeyPress
            RemoveHandler axCZKEM1.OnEnrollFinger, AddressOf AxCZKEM1_OnEnrollFinger
            RemoveHandler axCZKEM1.OnDeleteTemplate, AddressOf AxCZKEM1_OnDeleteTemplate
            RemoveHandler axCZKEM1.OnNewUser, AddressOf AxCZKEM1_OnNewUser
            RemoveHandler axCZKEM1.OnAlarm, AddressOf AxCZKEM1_OnAlarm
            RemoveHandler axCZKEM1.OnDoor, AddressOf AxCZKEM1_OnDoor
            RemoveHandler axCZKEM1.OnWriteCard, AddressOf AxCZKEM1_OnWriteCard
            RemoveHandler axCZKEM1.OnEmptyCard, AddressOf AxCZKEM1_OnEmptyCard
            RemoveHandler axCZKEM1.OnHIDNum, AddressOf AxCZKEM1_OnHIDNum

            bIsConnected = False
            btnConnect.Text = "Connect"
            lblState.Text = "Current State: Disconnected"
            Cursor = Cursors.Default
        Return
        End If

        bIsConnected = axCZKEM1.Connect_Net(txtIP.Text.Trim(),
        Convert.ToInt32(txtPort.Text.Trim()))
        If bIsConnected = True Then
            btnConnect.Text = "Disconnect"
            btnConnect.Refresh()
            lblState.Text = "Current State: Connected"
            iMachineNumber = 1
            If axCZKEM1.RegEvent(iMachineNumber, 65535) = True Then
                AddHandler axCZKEM1.OnFinger, AddressOf AxCZKEM1_OnFinger
                AddHandler axCZKEM1.OnFingerFeature, AddressOf AxCZKEM1_OnFingerFeature
                AddHandler axCZKEM1.OnVerify, AddressOf AxCZKEM1_OnVerify
                AddHandler axCZKEM1.OnAttTransaction, AddressOf AxCZKEM1_OnAttTransaction
                AddHandler axCZKEM1.OnAttTransactionEx, AddressOf AxCZKEM1_OnAttTransactionEx
                AddHandler axCZKEM1.OnKeyPress, AddressOf AxCZKEM1_OnKeyPress
                AddHandler axCZKEM1.OnEnrollFinger, AddressOf AxCZKEM1_OnEnrollFinger
            End If
        End If
    End Sub
End Class
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AddHandler axCZKEM1.OnDeleteTemplate, AddressOf AxCZKEM1_OnDeleteTemplate
AddHandler axCZKEM1.OnNewUser, AddressOf AxCZKEM1_OnNewUser
AddHandler axCZKEM1.OnAlarm, AddressOf AxCZKEM1_OnAlarm
AddHandler axCZKEM1.OnDoor, AddressOf AxCZKEM1_OnDoor
AddHandler axCZKEM1.OnWriteCard, AddressOf AxCZKEM1_OnWriteCard
AddHandler axCZKEM1.OnEmptyCard, AddressOf AxCZKEM1_OnEmptyCard
AddHandler axCZKEM1.OnHIDNum, AddressOf AxCZKEM1_OnHIDNum

EndIf
Else
    axCZKEM1.GetLastError(idwErrorCode)
MsgBox("Unabletoconnectthedevice,ErrorCode=" &idwErrorCode,
MsgBoxStyle.Exclamation, "Error")
EndIf
Cursor = Cursors.Default

EndSub

#EndRegion

#Region "RealTimeEvents"
PrivateSub AxCZKEM1_OnFinger()
lbRTShow.Items.Add("RTEventOnFinger Has beenTriggered")
EndSub
PrivateSub AxCZKEM1_OnVerify(ByValiUserIDAsInteger)
lbRTShow.Items.Add("RTEventOnVerify Has beenTriggered,Verifying...")
IfiUserID<> -1 Then
lbRTShow.Items.Add("VerifiedOK,theUserIDis "&iUserID.ToString())
Else
lbRTShow.Items.Add("VerifiedFailed... ")
EndIf
EndSub
PrivateSub AxCZKEM1_OnAttTransaction(ByValiEnrollNumberAsInteger,
ByValiIsInvalidAsInteger, ByValiAttStateAsInteger, ByValiVerifyMethodAsInteger,
ByValiYearAsInteger, ByValiMonthAsInteger, ByValiDayAsInteger,
ByValiHourAsInteger, ByValiMinuteAsInteger, ByValiSecondAsInteger)
lbRTShow.Items.Add("RTEventOnAttTrasaction Has beenTriggered,Verified OK")
lbRTShow.Items.Add("...UserID:"&iEnrollNumber.ToString())
lbRTShow.Items.Add("...isInvalid:"&iIsInvalid.ToString())
lbRTShow.Items.Add("...attState:"&iAttState.ToString())
lbRTShow.Items.Add("...VerifyMethod:"&iVerifyMethod.ToString())
lbRTShow.Items.Add("...Time:"&iYear.ToString() &"-"&iMonth.ToString() &"-"
&iDay.ToString() &" "&iHour.ToString() &":"&iMinute.ToString()
&":"&iSecond.ToString())
Console.WriteLine(iEnrollNumber.ToString())

EndSub

PrivateSub AxCZKEM1_OnAttTransactionEx(ByValsEnrollNumberAsString,
ByValiIsInvalidAsInteger, ByValiAttStateAsInteger, ByValiVerifyMethodAsInteger,
ByValiYearAsInteger, ByValiMonthAsInteger, ByValiDayAsInteger,
ByValiHourAsInteger, ByValiMinuteAsInteger, ByValiSecondAsInteger,
ByValiWorkCodeAsInteger)
lbRTShow.Items.Add("RTEventOnAttTrasactionEx Has beenTriggered,Verified OK")
lbRTShow.Items.Add("...UserID:"&sEnrollNumber)
lbRTShow.Items.Add("...isInvalid:"&iIsInvalid.ToString())

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lbRTShow.Items.Add("...attState:"&iAttState.ToString())
lbRTShow.Items.Add("...VerifyMethod:"&iVerifyMethod.ToString())
lbRTShow.Items.Add("...Workcode:"&iWorkCode.ToString())
lbRTShow.Items.Add("...Time:"&iYear.ToString() &"-"&iMonth.ToString() &"-"
&iDay.ToString() &" "&iHour.ToString() &":"&iMinute.ToString()
&":"&iSecond.ToString())
Console.WriteLine(sEnrollNumber)
simpan_absen(sEnrollNumber)

EndSub

PrivateSub AxCZKEM1_OnFingerFeature(ByValiScoreAsInteger)
IfiScore< 0 Then
lbRTShow.Items.Add("The qualityofyourfingerprintispoor")
Else
lbRTShow.Items.Add("RTEventOnFingerFeature Has
beenTriggered...Score:"&iScore.ToString())
EndIf
EndSub

PrivateSub AxCZKEM1_OnEnrollFinger(ByValiEnrollNumberAsInteger,
ByValiFingerIndexAsInteger, ByValiActionResultAsInteger,
ByValiTemplateLengthAsInteger)
IfiActionResult = 0 Then
lbRTShow.Items.Add("RTEventOnEnrollFiger Has beenTriggered...")
lbRTShow.Items.Add(".....UserID: "&iEnrollNumber&" Index:
"&iFingerIndex.ToString() &" tmpLen: " + iTemplateLength.ToString())
Else
lbRTShow.Items.Add("RTEventOnEnrollFigerwasTriggeredbyError")
EndIf
EndSub

PrivateSub AxCZKEM1_OnKeyPress(ByValiKeyAsInteger)
lbRTShow.Items.Add("RTEventOnKeyPress Has beenTriggered, Key: "&iKey.ToString())
EndSub

PrivateSub AxCZKEM1_OnDeleteTemplate(ByValiEnrollNumberAsInteger,
ByValiFingerIndexAsInteger)
lbRTShow.Items.Add("RTEventOnDeleteTemplate Has beenTriggered...")
lbRTShow.Items.Add("...UserID="&iEnrollNumber.ToString() &"
FingerIndex="&iFingerIndex.ToString())
EndSub

PrivateSub AxCZKEM1_OnNewUser(ByValiEnrollNumberAsInteger)
lbRTShow.Items.Add("RTEventOnNewUser Has beenTriggered...")
lbRTShow.Items.Add("...NewUserID="&iEnrollNumber.ToString())
EndSub

PrivateSub AxCZKEM1_OnHIDNum(ByValiCardNumberAsInteger)
lbRTShow.Items.Add("RTEventOnHIDNum Has beenTriggered...")
lbRTShow.Items.Add("...Cardnumber="&iCardNumber.ToString())
EndSub

PrivateSub AxCZKEM1_OnAlarm(ByValiAlarmTypeAsInteger,
ByValiEnrollNumberAsInteger, ByValiVerifiedAsInteger)
lbRTShow.Items.Add("RTEvnetOnAlarm Has beenTriggered...")
lbRTShow.Items.Add("...alarmType="&iAlarmType.ToString())
lbRTShow.Items.Add("...enrollNumber="&iEnrollNumber.ToString())
lbRTShow.Items.Add("...verified="&iVerified.ToString())
EndSub

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PrivateSub AxCKEM1_OnDoor(ByValiEventTypeAsInteger)
lbRTShow.Items.Add("RTEventOndoor Has beenTriggered...")
lbRTShow.Items.Add("...EventType=" &iEventType.ToString())
EndSub
PrivateSub AxCKEM1_OnEmptyCard(ByValiActionResultAsInteger)
lbRTShow.Items.Add("RTEventOnEmptyCard Has beenTriggered...")
IfiActionResult = 0 Then
lbRTShow.Items.Add("...EmptyMifareCard OK")
Else
lbRTShow.Items.Add("...EmptyFailed")
EndIf
EndSub

PrivateSub AxCKEM1_OnWriteCard(ByValiEnrollNumberAsInteger,
ByValiActionResultAsInteger, ByValiLengthAsInteger)
lbRTShow.Items.Add("RTEventOnWriteCard Has beenTriggered...")
IfiActionResult = 0 Then
lbRTShow.Items.Add("...WriteMifareCard OK")
lbRTShow.Items.Add("...EnrollNumber=" &iEnrollNumber.ToString())
lbRTShow.Items.Add("...Tmplength=" &iLength.ToString())
Else
lbRTShow.Items.Add("...WriteFailed")
EndIf
EndSub
#EndRegion

Subsimpan_absen(ByValid_jariAsInteger)
ambilkoneksi()
cmd = NewSqlCommand("select * from Mahasiswa whereid_jari='" &id_jari&'", conn)
Console.WriteLine("select * from Mahasiswa whereid_jari='" &id_jari&'"")

Dim adapter AsNewSqlClient.SqlDataAdapter(cmd)
DimdsAsNewDataSet
adapter.Fill(ds, "Mahasiswa")
Dimnim = ds.Tables(0).Rows(0).Item(1).ToString()
Dim kelas = ds.Tables(0).Rows(0).Item(7).ToString()

Dimjam_masukAsString
Dimjam_sekarangAsString = Date.Now.TimeOfDay.ToString()
Dim pecahan = jam_sekarang.Split(".")
jam_sekarang = pecahan(0)
Ifkelas.Equals("Siang") Then
jam_masuk = "12:40:00"
Else
jam_masuk = "07:00:00"
EndIf

DimmyCultureAsSystem.Globalization.CultureInfo =
Globalization.CultureInfo.CurrentCulture
DimdayOfWeekAsDayOfWeek = myCulture.Calendar.GetDayOfWeek(Date.Today)

DimdayNameAsString = myCulture.DateTimeFormat.GetDayName(dayOfWeek)

If (cbRamadhan.Checked) Then
If (kelas.Equals("Pagi")) Then
jam_masuk = "07:00:00"
Else

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If (dayName.Equals("Jumat")) Then
jam_masuk = "13:20:00"
Else
jam_masuk = "11:30:00"

EndIf

EndIf
Else
If (kelas.Equals("Pagi")) Then
jam_masuk = "07:00:00"
Else
If (dayName.Equals("Jumat")) Then
jam_masuk = "13:40:00"
Else
jam_masuk = "12:40:00"

EndIf

EndIf
EndIf

Dimkompen = DateDiff(DateInterval.Minute, CDate(jam_masuk), CDate(jam_sekarang))
ambilkoneksi()
Try
cmd = NewSqlClient.SqlCommand("select * from Absen whereid_jari='"&id_jari&"'
andCast(tanggal as date) = Cast(GETDATE() as date)", conn)
rd = cmd.ExecuteReader()
rd.Read()
Ifrd.HasRowsThen
Console.WriteLine("Sudah Absen")
Else
cmd.Dispose()

cmd = NewSqlClient.SqlCommand("insertinto Absen( nim, id_jari, waktu_kedatangan,
waktu_scan, kompen, Status, kelas)
values('"&nim&"', '"&id_jari&"', '"&jam_masuk&"', '"&jam_sekarang&"', '"&kompen&"', '
hadir', '"& kelas &"') ", conn)
Console.WriteLine("insertinto Absen( nim, id_jari, waktu_kedatangan, waktu_scan,
kompen, Status, kelas)
values('"&nim&"', '"&id_jari&"', '"&jam_masuk&"', '"&jam_sekarang&"', '"&kompen&"', '
hadir', '"& kelas &"') ")
Dimjumlah_baris_tereksekusi = cmd.ExecuteNonQuery()
If (jumlah_baris_tereksekusi = 0) Then
Console.WriteLine("Gagal Insert Data")
Else
Console.WriteLine("Sukses Insert Data")
EndIf

EndIf

CatchexAsException
Console.WriteLine("Gagal Insert Data Karena :"&ex.ToString)
EndTry

Console.WriteLine(ds.Tables(0).Rows(0).Item(0).ToString())
Console.WriteLine(ds.Tables(0).Rows(0).Item(1).ToString())
Console.WriteLine(ds.Tables(0).Rows(0).Item(2).ToString())
Console.WriteLine(ds.Tables(0).Rows(0).Item(3).ToString())

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EndSub

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PrivateSub RTEvets_Load(sender As Object, e As EventArgs) Handles MyBase.Load  
'Absen.Show()
```

EndSub

EndClass

Coding Form RTEvents2

```
Imports System.Data.SqlClient  
Public Class RTEvents2  
'Create Standalone SDK class dynamically.  
Public axCZKEM1 As New zkemkeeper.CZKEM
```

```
#Region "Communication"  
Private bIsConnected = False  
Private iMachineNumber As Integer
```

```
PrivateSub RTEvents2_Load(sender As Object, e As EventArgs) Handles MyBase.Load  
'Absen.Show()  
RTEvets.Show()
```

EndSub

```
PrivateSub btnConnect_Click(sender As Object, e As EventArgs)  
Handles btnConnect.Click  
If txtIP.Text.Trim() = "" Or txtPort.Text.Trim() = "" Then  
MsgBox("IP and Port cannot be null", MsgBoxStyle.Exclamation, "Error")  
Return  
EndIf  
Dim idwErrorCode As Integer  
Cursor = Cursors.WaitCursor  
If btnConnect.Text = "Disconnect" Then  
axCZKEM1.Disconnect()
```

```
RemoveHandler axCZKEM1.OnFinger, AddressOf AxCZKEM1_OnFinger  
RemoveHandler axCZKEM1.OnFingerFeature, AddressOf AxCZKEM1_OnFingerFeature  
RemoveHandler axCZKEM1.OnVerify, AddressOf AxCZKEM1_OnVerify  
RemoveHandler axCZKEM1.OnAttTransaction, AddressOf  
AxCZKEM1_OnAttTransaction  
RemoveHandler axCZKEM1.OnAttTransactionEx, AddressOf  
AxCZKEM1_OnAttTransactionEx  
RemoveHandler axCZKEM1.OnKeyPress, AddressOf AxCZKEM1_OnKeyPress  
RemoveHandler axCZKEM1.OnEnrollFinger, AddressOf AxCZKEM1_OnEnrollFinger  
RemoveHandler axCZKEM1.OnDeleteTemplate, AddressOf  
AxCZKEM1_OnDeleteTemplate
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RemoveHandler axCZKEM1.OnNewUser, AddressOf AxCZKEM1_OnNewUser
RemoveHandler axCZKEM1.OnAlarm, AddressOf AxCZKEM1_OnAlarm
RemoveHandler axCZKEM1.OnDoor, AddressOf AxCZKEM1_OnDoor
RemoveHandler axCZKEM1.OnWriteCard, AddressOf AxCZKEM1_OnWriteCard
RemoveHandler axCZKEM1.OnEmptyCard, AddressOf AxCZKEM1_OnEmptyCard
RemoveHandler axCZKEM1.OnHIDNum, AddressOf AxCZKEM1_OnHIDNum

bIsConnected = False
btnConnect.Text = "Connect"
lblState.Text = "CurrentState:Disconnected"
Cursor = Cursors.Default
Return
EndIf

bIsConnected = axCZKEM1.Connect_Net(txtIP.Text.Trim(),
Convert.ToInt32(txtPort.Text.Trim()))
IfbIsConnected = TrueThen
btnConnect.Text = "Disconnect"
btnConnect.Refresh()
lblState.Text = "CurrentState:Connected"
iMachineNumber = 1
If axCZKEM1.RegEvent(iMachineNumber, 65535) = TrueThen
AddHandler axCZKEM1.OnFinger, AddressOf AxCZKEM1_OnFinger
AddHandler axCZKEM1.OnFingerFeature, AddressOf AxCZKEM1_OnFingerFeature
AddHandler axCZKEM1.OnVerify, AddressOf AxCZKEM1_OnVerify
AddHandler axCZKEM1.OnAttTransaction, AddressOf AxCZKEM1_OnAttTransaction
AddHandler axCZKEM1.OnAttTransactionEx, AddressOf
AxCZKEM1_OnAttTransactionEx
AddHandler axCZKEM1.OnKeyPress, AddressOf AxCZKEM1_OnKeyPress
AddHandler axCZKEM1.OnEnrollFinger, AddressOf AxCZKEM1_OnEnrollFinger
AddHandler axCZKEM1.OnDeleteTemplate, AddressOf AxCZKEM1_OnDeleteTemplate
AddHandler axCZKEM1.OnNewUser, AddressOf AxCZKEM1_OnNewUser
AddHandler axCZKEM1.OnAlarm, AddressOf AxCZKEM1_OnAlarm
AddHandler axCZKEM1.OnDoor, AddressOf AxCZKEM1_OnDoor
AddHandler axCZKEM1.OnWriteCard, AddressOf AxCZKEM1_OnWriteCard
AddHandler axCZKEM1.OnEmptyCard, AddressOf AxCZKEM1_OnEmptyCard
AddHandler axCZKEM1.OnHIDNum, AddressOf AxCZKEM1_OnHIDNum

EndIf
Else
axCZKEM1.GetLastError(idwErrorCode)
MsgBox("Unabletoconnectthedevice,ErrorCode=" &idwErrorCode,
MsgBoxStyle.Exclamation, "Error")
EndIf
Cursor = Cursors.Default

EndSub

#EndRegion

#Region "RealTimeEvents"
PrivateSub AxCZKEM1_OnFinger()
lbRTShow.Items.Add("RTEventOnFinger Has beenTriggered")
EndSub
PrivateSub AxCZKEM1_OnVerify(ByValiUserIDAsInteger)
lbRTShow.Items.Add("RTEventOnVerify Has beenTriggered,Verifying...")
IfiUserID<> -1 Then

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lbRTShow.Items.Add("VerifiedOK,theUserIDis "&iUserID.ToString())
Else
lbRTShow.Items.Add("VerifiedFailed... ")
EndIf
EndSub
PrivateSub AxCZKEM1_OnAttTransaction(ByValiEnrollNumberAsInteger,
ByValiIsInvalidAsInteger, ByValiAttStateAsInteger,
ByValiVerifyMethodAsInteger, _
ByValiYearAsInteger, ByValiMonthAsInteger, ByValiDayAsInteger,
ByValiHourAsInteger, ByValiMinuteAsInteger, ByValiSecondAsInteger)
lbRTShow.Items.Add("RTEventOnAttTrasaction Has beenTriggered,Verified OK")
lbRTShow.Items.Add("...UserID:"&iEnrollNumber.ToString())
lbRTShow.Items.Add("...isInvalid:"&iIsInvalid.ToString())
lbRTShow.Items.Add("...attState:"&iAttState.ToString())
lbRTShow.Items.Add("...VerifyMethod:"&iVerifyMethod.ToString())
lbRTShow.Items.Add("...Time:"&iYear.ToString() &"-"&iMonth.ToString() &"-
"&iDay.ToString() &" "&iHour.ToString() &":"&iMinute.ToString()
&":"&iSecond.ToString())
Console.WriteLine(iEnrollNumber.ToString())

EndSub
PrivateSub AxCZKEM1_OnAttTransactionEx(ByValsEnrollNumberAsString,
ByValiIsInvalidAsInteger, ByValiAttStateAsInteger,
ByValiVerifyMethodAsInteger, _
ByValiYearAsInteger, ByValiMonthAsInteger, ByValiDayAsInteger,
ByValiHourAsInteger, ByValiMinuteAsInteger, ByValiSecondAsInteger,
ByValiWorkCodeAsInteger)
lbRTShow.Items.Add("RTEventOnAttTrasactionEx Has beenTriggered,Verified
OK")
lbRTShow.Items.Add("...UserID:"&sEnrollNumber)
lbRTShow.Items.Add("...isInvalid:"&iIsInvalid.ToString())
lbRTShow.Items.Add("...attState:"&iAttState.ToString())
lbRTShow.Items.Add("...VerifyMethod:"&iVerifyMethod.ToString())
lbRTShow.Items.Add("...Workcode:"&iWorkCode.ToString())
lbRTShow.Items.Add("...Time:"&iYear.ToString() &"-"&iMonth.ToString() &"-
"&iDay.ToString() &" "&iHour.ToString() &":"&iMinute.ToString()
&":"&iSecond.ToString())
Console.WriteLine(sEnrollNumber)
'Absen.txtid_jari.Text = sEnrollNumber
simpan_absen(sEnrollNumber)

EndSub

AxCZKEM1_OnFingerFeature(ByValiScoreAsInteger)
IfiScore< 0 Then
lbRTShow.Items.Add("The qualityofyourfingerprintispoor")
Else
lbRTShow.Items.Add("RTEventOnFingerFeature Has
beenTriggered...Score:"&iScore.ToString())
EndIf
EndSub

PrivateSub AxCZKEM1_OnEnrollFinger(ByValiEnrollNumberAsInteger,
ByValiFingerIndexAsInteger, ByValiActionResultAsInteger,
ByValiTemplateLengthAsInteger)
IfiActionResult = 0 Then
lbRTShow.Items.Add("RTEventOnEnrollFiger Has beenTriggered....")

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lbRTShow.Items.Add(".....UserID: "&iEnrollNumber&" Index:
"&iFingerIndex.ToString() &" tmpLen: " + iTemplateLength.ToString())
Else
lbRTShow.Items.Add("RTEventOnEnrollFigerwasTriggeredbyError")
EndIf
EndSub
PrivateSub AxCZKEM1_OnKeyPress(ByValiKeyAsInteger)
lbRTShow.Items.Add("RTEventOnKeyPress Has beenTriggered, Key:
"&iKey.ToString())
EndSub

PrivateSub AxCZKEM1_OnDeleteTemplate(ByValiEnrollNumberAsInteger,
ByValiFingerIndexAsInteger)
lbRTShow.Items.Add("RTEventOnDeleteTemplate Has beenTriggered...")
lbRTShow.Items.Add("...UserID="&iEnrollNumber.ToString() &"
FingerIndex="&iFingerIndex.ToString())
EndSub

PrivateSub AxCZKEM1_OnNewUser(ByValiEnrollNumberAsInteger)
lbRTShow.Items.Add("RTEventOnNewUser Has beenTriggered...")
lbRTShow.Items.Add("...NewUserID="&iEnrollNumber.ToString())
EndSub

PrivateSub AxCZKEM1_OnHIDNum(ByValiCardNumberAsInteger)
lbRTShow.Items.Add("RTEventOnHIDNum Has beenTriggered...")
lbRTShow.Items.Add("...Cardnumber="&iCardNumber.ToString())
EndSub

PrivateSub AxCZKEM1_OnAlarm(ByValiAlarmTypeAsInteger,
ByValiEnrollNumberAsInteger, ByValiVerifiedAsInteger)
lbRTShow.Items.Add("RTEvnetOnAlarm Has beenTriggered...")
lbRTShow.Items.Add("...alarmType="&iAlarmType.ToString())
lbRTShow.Items.Add("...enrollNumber="&iEnrollNumber.ToString())
lbRTShow.Items.Add("...verified="&iVerified.ToString())
EndSub

PrivateSub AxCZKEM1_OnDoor(ByValiEventTypeAsInteger)
lbRTShow.Items.Add("RTEventOndoor Has beenTriggered...")
lbRTShow.Items.Add("...EventType="&iEventType.ToString())
EndSub

PrivateSub AxCZKEM1_OnEmptyCard(ByValiActionResultAsInteger)
lbRTShow.Items.Add("RTEventOnEmptyCard Has beenTriggered...")
IfiActionResult = 0 Then
lbRTShow.Items.Add("...EmptyMifareCard OK")
Else
lbRTShow.Items.Add("...EmptyFailed")
EndIf
EndSub

PrivateSub AxCZKEM1_OnWriteCard(ByValiEnrollNumberAsInteger,
ByValiActionResultAsInteger, ByValiLengthAsInteger)
lbRTShow.Items.Add("RTEventOnWriteCard Has beenTriggered...")
IfiActionResult = 0 Then
lbRTShow.Items.Add("...WriteMifareCard OK")
lbRTShow.Items.Add("...EnrollNumber="&iEnrollNumber.ToString())
lbRTShow.Items.Add("...TmpLength="&iLength.ToString())
Else

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lbRTShow.Items.Add("...WriteFailed")
EndIf
EndSub
#EndRegion

Subsimpan_absen(ByValid_jariAsInteger)
ambilkoneksi()
cmd = NewSqlCommand("select * from Mahasiswa whereid_jari='"&id_jari&'",
conn)
Console.WriteLine("select * from Mahasiswa whereid_jari='"&id_jari&'"")

Dim adapter AsNewSqlClient.SqlDataAdapter(cmd)
DimdsAsNewDataSet
adapter.Fill(ds, "Mahasiswa")
Dimnim = ds.Tables(0).Rows(0).Item(1).ToString()
Dim kelas = ds.Tables(0).Rows(0).Item(7).ToString()

Dimjam_masukAsString
Dimjam_sekarangAsString = Date.Now.TimeOfDay.ToString()
Dim pecahan = jam_sekarang.Split(".")
jam_sekarang = pecahan(0)
Ifkelas.Equals("Siang") Then
jam_masuk = "12:40:00"
Else
jam_masuk = "07:00:00"
EndIf

DimmyCultureAsSystem.Globalization.CultureInfo =
Globalization.CultureInfo.CurrentCulture
DimdayOfWeekAsDayOfWeek = myCulture.Calendar.GetDayOfWeek(Date.Today)

DimdayNameAsString = myCulture.DateTimeFormat.GetDayName(dayOfWeek)
If (cbRamadhan.Checked) Then
If (kelas.Equals("Pagi")) Then
jam_masuk = "07:00:00"
Else
If (dayName.Equals("Jumat")) Then
jam_masuk = "13:20:00"
Else
jam_masuk = "11:30:00"

EndIf

EndIf
Else
If (kelas.Equals("Pagi")) Then
jam_masuk = "07:00:00"
Else
If (dayName.Equals("Jumat")) Then
jam_masuk = "13:40:00"
Else
jam_masuk = "12:40:00"

EndIf

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EndIf
EndIf

Dimkompen = DateDiff(DateInterval.Minute, CDate(jam_masuk),
CDate(jam_sekarang))

ambilkoneksi()
Try
cmd = NewSqlClient.SqlCommand("select * from Absen
whereid_jari='"&id_jari&"' andCast(tanggal as date) = Cast(GETDATE() as
date)", conn)
rd = cmd.ExecuteReader()
rd.Read()
Ifrd.HasRowsThen
Console.WriteLine("Sudah Absen")
Else
cmd = NewSqlClient.SqlCommand("insertinto Absen( nim, id_jari,
waktu_kedatangan, waktu_scan, kompen, Status, kelas)
values('"&nim&"', '"&id_jari&"', '"&jam_masuk&"', '"&jam_sekarang&"', '"&kompen
&"', 'hadir', '"& kelas &"') ", conn)
Console.WriteLine("insertinto Absen( nim, id_jari, waktu_kedatangan,
waktu_scan, kompen, Status, kelas)
values('"&nim&"', '"&id_jari&"', '"&jam_masuk&"', '"&jam_sekarang&"', '"&kompen
&"', 'hadir', '"& kelas &"') ")
Dimjumlah_baris_tereksekusi = cmd.ExecuteNonQuery()
If (jumlah_baris_tereksekusi = 0) Then
Console.WriteLine("Gagal Insert Data")
Else
Console.WriteLine("Sukses Insert Data")
EndIf

EndIf

CatchexAsException
Console.WriteLine("Gagal Insert Data Karena :"&ex.ToString)
EndTry

Console.WriteLine(ds.Tables(0).Rows(0).Item(0).ToString())
Console.WriteLine(ds.Tables(0).Rows(0).Item(1).ToString())
Console.WriteLine(ds.Tables(0).Rows(0).Item(2).ToString())
Console.WriteLine(ds.Tables(0).Rows(0).Item(3).ToString())

EndSub
EndClass

```

Coding Form Login

```
ImportsSystem.Data.SqlClient
```

```
PublicClassLogin
```

```

PrivateSubbtnLogin_Click(senderAsObject, e AsEventArgs)
HandlesbtnLogin.Click
ambilkoneksi()
cmd = NewSqlCommand("select * fromadminwhereusername='"&txtUsername.Text&"'
andpassword='"&txtPassword.Text&"'", conn)
rd = cmd.ExecuteReader()
rd.Read()
Ifrd.HasRowsThen
menuutama.Show()
Me.Hide()
Else
MsgBox("Login Gagal")
txtUsername.Focus()
EndIf

txtUsername.Text = ""
txtPassword.Text = ""

EndSub

PrivateSubLogin_Load(senderAsObject, e AsEventArgs) Handles MyBase.Load
Me.txtUsername.Focus()
RTEvents2.Show()

EndSub

PrivateSub Button1_Click(senderAsObject, e AsEventArgs) Handles
Button1.Click
Me.Close()

EndSub
EndClass

```

Coding Form Menu Utama

```

PublicClassmenuutama

PrivateSubMahasiswaToolStripMenuItem_Click(senderAsObject, e AsEventArgs)
HandlesMahasiswaToolStripMenuItem.Click
DimmhsAsNewmahasiswa
mhs.MdiParent = Me
mhs.Show()

EndSub

PrivateSubUserToolStripMenuItem_Click(senderAsObject, e AsEventArgs)
HandlesUserToolStripMenuItem.Click
DimmhsAsNewAdmin1
mhs.MdiParent = Me
mhs.Show()

```

```
EndSub
```

```
PrivateSubLogoutToolStripMenuItem_Click(senderAsObject, e AsEventArgs)  
HandlesLogoutToolStripMenuItem.Click  
Close()  
EndSub
```

```
PrivateSubAbsenToolStripMenuItem_Click(senderAsObject, e AsEventArgs)  
HandlesAbsenToolStripMenuItem.Click
```

```
EndSub
```

```
PrivateSubLaporanToolStripMenuItem_Click(senderAsObject, e AsEventArgs)  
HandlesLaporanToolStripMenuItem.Click  
DimmhsAsNewLaporan  
mhs.MdiParent = Me  
mhs.Show()  
EndSub
```

```
PrivateSubmenuutama_Load(senderAsObject, e AsEventArgs) Handles MyBase.Load
```

```
EndSub
```

```
PrivateSub AbsenToolStripMenuItem1_Click(senderAsObject, e AsEventArgs)  
Handles AbsenToolStripMenuItem1.Click  
DimmhsAsNewAbsen  
mhs.MdiParent = Me  
mhs.Show()  
EndSub
```

Coding Form Mahasiswa

```
PublicClassmahasiswa
```

```
PrivateSubmahasiswa_Load(senderAsObject, e AsEventArgs) Handles MyBase.Load  
tampildata()  
EndSub
```

```
PrivateSubBtnSimpan_Click(senderAsObject, e AsEventArgs)  
HandlesBtnSimpan.Click  
DimnimAsString  
Dimid_jariAsString  
Dim nama AsString  
Dimno_hpAsString  
Dimnama_kelasAsString  
Dim alamat AsString  
Dim kelas AsString
```

```
nim = txtnim.Text.ToString  
id_jari = txtidjari.Text.ToString  
nama = txtnama.Text.ToString  
no_hp = txtnohp.Text.ToString
```

```

nama_kelas = txtNamaKelas.Text.ToString
    alamat = txtalamat.Text.ToString
    kelas = CmbKelas.Text.ToString
ambilkoneksi()
Try
cmd = NewSqlClient.SqlCommand("insertinto mahasiswa(nim, id_jari, nama,
no_hp, nama_kelas, alamat, kelas ) values('&nim&', '&id_jari&', '& nama
&', '&no_hp&', '&nama_kelas&', '& alamat &', '& kelas &') ", conn)
Dimjumlah_baris_tereksekusi = cmd.ExecuteNonQuery()
If (jumlah_baris_tereksekusi = 0) Then
MsgBox("Gagal Insert Data")
Else
MsgBox("Sukses Insert Data")
txtnim.Text = ""
txtidjari.Text = ""
txtnama.Text = ""
txtnohp.Text = ""
txtNamaKelas.Text = ""
txtalamat.Text = ""
CmbKelas.Text = ""
tampildata()

EndIf
CatchexAsException
MsgBox("Gagal Insert Data Karena :"&ex.ToString)
EndTry

EndSub
Subtampildata()
ambilkoneksi()
cmd = NewSqlClient.SqlCommand("select * from mahasiswa", conn)
Dim adapter AsNewSqlClient.SqlDataAdapter(cmd)
DimdsAsNewDataSet
adapter.Fill(ds, "mahasiswa")
DataGridView1.DataSource = ds.Tables(0)

EndSub

PrivateSub DataGridView1_CellDoubleClick(senderAsObject, e
AsDataGridViewCellEventArgs) Handles DataGridView1.CellDoubleClick
txtnim.Text = DataGridView1.Rows(e.RowIndex).Cells(1).Value.ToString
txtidjari.Text = DataGridView1.Rows(e.RowIndex).Cells(2).Value.ToString
txtnama.Text = DataGridView1.Rows(e.RowIndex).Cells(3).Value.ToString
txtnohp.Text = DataGridView1.Rows(e.RowIndex).Cells(4).Value.ToString
txtalamat.Text = DataGridView1.Rows(e.RowIndex).Cells(5).Value.ToString
txtNamaKelas.Text = DataGridView1.Rows(e.RowIndex).Cells(6).Value.ToString
CmbKelas.Text = DataGridView1.Rows(e.RowIndex).Cells(7).Value.ToString
txtidjari.Enabled = True
BtnSimpan.Enabled = False
EndSub

PrivateSubBtnUbah_Click(senderAsObject, e AsEventArgs) HandlesBtnUbah.Click
DimnimAsString
Dimid_jariAsString

```

```

Dim nama AsString
Dimno_hpAsString
Dimnama_kelasAsString
Dim alamat AsString
Dim kelas AsString
nim = txtnim.Text.ToString
id_jari = txtidjari.Text.ToString
    nama = txtnama.Text.ToString
no_hp = txtnohp.Text.ToString
nama_kelas = txtNamaKelas.Text.ToString
    alamat = txtalamat.Text.ToString
    kelas = CmbKelas.Text.ToString
ambilkoneksi()
Try
cmd = NewSqlClient.SqlCommand("update mahasiswa set id_jari='"&id_jari&"',
nama='"& nama &"', no_hp='"&no_hp&"', nama_kelas='"&nama_kelas&"',
alamat='"& alamat &"', kelas='"& kelas &"' wherenim='"&nim&"", conn)
Dimjumlah_baris_tereksekusi = cmd.ExecuteNonQuery()
If (jumlah_baris_tereksekusi = 0) Then
MsgBox("Gagal ubah Data")
Else
MsgBox("Sukses ubah Data")
txtnim.Text = ""
txtidjari.Text = ""
txtnama.Text = ""
txtnohp.Text = ""
txtNamaKelas.Text = ""
txtalamat.Text = ""
CmbKelas.Text = ""
tampildata()
txtidjari.Enabled = True
BtnSimpan.Enabled = True

EndIf
CatchexAsException
MsgBox("Gagal ubah Data Karena :"&ex.ToString)
EndTry
EndSub

PrivateSubBtnHapus_Click(senderAsObject, e AsEventArgs)
HandlesBtnHapus.Click
DimnimAsString
Dimid_jariAsString
Dim nama AsString
Dimno_hpAsString
Dimnama_kelasAsString
Dim alamat AsString
Dim kelas AsString
nim = txtnim.Text.ToString
id_jari = txtidjari.Text.ToString
    nama = txtnama.Text.ToString
no_hp = txtnohp.Text.ToString
nama_kelas = txtNamaKelas.Text.ToString
    kelas = txtNamaKelas.Text.ToString
    alamat = txtalamat.Text.ToString
    kelas = CmbKelas.Text.ToString
ambilkoneksi()

```

```

Try
cmd = NewSqlClient.SqlCommand("deletefrom mahasiswa wherenim='"&nim&'",
conn)
Dimjumlah_baris_tereksekusi = cmd.ExecuteNonQuery()
If (jumlah_baris_tereksekusi = 0) Then
MsgBox("Gagal hapus Data")
Else
MsgBox("Sukses hapus Data")
txtnim.Text = ""
txtidjari.Text = ""
txtnama.Text = ""
txtnohp.Text = ""
txtNamaKelas.Text = ""
txtalamat.Text = ""
txtNamaKelas.Text = ""
CmbKelas.Text = ""
tampildata()
txtidjari.Enabled = True
BtnSimpan.Enabled = True

EndIf
CatchexAsException
MsgBox("Gagal hapus Data Karena :"&ex.ToString)
EndTry
EndSub

PrivateSub Label11_Click(senderAsObject, e AsEventArgs) Handles
Label11.Click

EndSub
EndClass

```

Coding Form Admin

```

PublicClassAdmin1

PrivateSub Label6_Click(senderAsObject, e AsEventArgs) Handles Label6.Click

EndSub

PrivateSubAdmin_Load(senderAsObject, e AsEventArgs) HandlesMyBase.Load
tampildata()
EndSub

PrivateSubBtnSimpan_Click(senderAsObject, e AsEventArgs)
HandlesBtnSimpan.Click
DimusernameAsString
DimpasswordAsString
Dim nama AsString
Dimno_hpAsString
username = txtusername.Text.ToString
password = txtpassword.Text.ToString

```



```

        nama = txtnama.Text.ToString
no_hp = txtnohp.Text.ToString
ambilkoneksi()
Try
cmd = NewSqlClient.SqlCommand("insertinto Admin( username, password, nama,
no_hp) values('&username&', '&password&', '& nama &', '&no_hp&') ",
conn)
Dimjumlah_baris_tereksekusi = cmd.ExecuteNonQuery()
If (jumlah_baris_tereksekusi = 0) Then
MsgBox("Gagal Insert Data")
Else
MsgBox("Sukses Insert Data")
txtusername.Text = ""
txtpassword.Text = ""
txtnama.Text = ""
txtnohp.Text = ""
tampildata()

EndIf
CatchexAsException
MsgBox("Gagal Insert Data Karena :"&ex.ToString)
EndTry
EndSub

Subtampildata()
ambilkoneksi()
cmd = NewSqlClient.SqlCommand("select * from Admin", conn)
Dim adapter AsNewSqlClient.SqlDataAdapter(cmd)
DimdsAsNewDataSet
adapter.Fill(ds, "Admin")
DataGridView1.DataSource = ds.Tables(0)

EndSub

PrivateSub DataGridView1_CellDoubleClick(senderAsObject, e
AsDataGridViewCellEventArgs) Handles DataGridView1.CellDoubleClick

txtusername.Text = DataGridView1.Rows(e.RowIndex).Cells(1).Value.ToString
txtpassword.Text = DataGridView1.Rows(e.RowIndex).Cells(2).Value.ToString
txtnama.Text = DataGridView1.Rows(e.RowIndex).Cells(3).Value.ToString
txtnohp.Text = DataGridView1.Rows(e.RowIndex).Cells(4).Value.ToString
txtusername.Enabled = False
BtnSimpan.Enabled = False
EndSub

PrivateSubbtnUbah_Click(senderAsObject, e AsEventArgs) HandlesbtnUbah.Click

DimusernameAsString
DimpasswordAsString
Dim nama AsString
Dimno_hpAsString
username = txtusername.Text.ToString
password = txtpassword.Text.ToString
nama = txtnama.Text.ToString
no_hp = txtnohp.Text.ToString

```

```

ambilkoneksi()
Try
cmd = NewSqlClient.SqlCommand("update Admin set password='"&password&"',
nama='"& nama &"', no_hp='"&no_hp&"' whereusername='"&username&"", conn)
Dimjumlah_baris_tereksekusi = cmd.ExecuteNonQuery()
If (jumlah_baris_tereksekusi = 0) Then
MsgBox("Gagal ubah Data")
Else
MsgBox("Sukses ubah Data")
txtusername.Text = ""
txtpassword.Text = ""
txtnama.Text = ""
txtnohp.Text = ""
tampildata()
txtusername.Enabled = True
BtnSimpan.Enabled = True

EndIf
CatchexAsException
MsgBox("Gagal ubah Data Karena :"&ex.ToString)
EndTry
EndSub

PrivateSubBtnHapus_Click(senderAsObject, e AsEventArgs)
HandlesBtnHapus.Click
DimusernameAsString
DimpasswordAsString
Dim nama AsString
Dimno_hpAsString

username = txtusername.Text.ToString
password = txtpassword.Text.ToString
nama = txtnama.Text.ToString
no_hp = txtnohp.Text.ToString
ambilkoneksi()
Try
cmd = NewSqlClient.SqlCommand("deletefrom Admin
whereusername='"&username&"", conn)
Dimjumlah_baris_tereksekusi = cmd.ExecuteNonQuery()
If (jumlah_baris_tereksekusi = 0) Then
MsgBox("Gagal hapus Data")
Else
MsgBox("Sukses hapus Data")

txtusername.Text = ""
txtpassword.Text = ""
txtnama.Text = ""
txtnohp.Text = ""
tampildata()
txtusername.Enabled = True
BtnSimpan.Enabled = True

EndIf
CatchexAsException
MsgBox("Gagal hapus Data Karena :"&ex.ToString)
EndTry
EndSub

```

```
PrivateSub DataGridView1_CellContentClick(senderAsObject, e
AsDataGridViewCellEventArgs) Handles DataGridView1.CellContentClick
```

```
EndSub
EndClass
```

Coding Form Absen

```
PublicClassAbsen
```

```
PrivateSubAbsen_Load(senderAsObject, e AsEventArgs) Handles MyBase.Load
Cmbkelas.SelectedIndex = 0
CmbStatus.SelectedIndex = 0
    Timer1.Enabled = True
    Timer1.Start()
tampildata()
DtWaktu_kedatangan.Format = DateTimePickerFormat.Custom
DtWaktu_kedatangan.CustomFormat = "HH:mm:ss"
Dtwaktu_scan.Format = DateTimePickerFormat.Custom
Dtwaktu_scan.CustomFormat = "HH:mm:ss"
EndSub
```

```
Subtampildata()
ambilkoneksi()
cmd = NewSqlClient.SqlCommand("select * from Absen", conn)
Dim adapter AsNewSqlClient.SqlDataAdapter(cmd)
DimdsAsNewDataSet
adapter.Fill(ds, "Absen")
    DataGridView1.DataSource = ds.Tables(0)
EndSub
```

```
PrivateSub DataGridView1_CellContentClick(senderAsObject, e
AsDataGridViewCellEventArgs) Handles DataGridView1.CellContentClick
txtid.Text = DataGridView1.Rows(e.RowIndex).Cells(0).Value.ToString
txtid_jari.Text = DataGridView1.Rows(e.RowIndex).Cells(1).Value.ToString
txtnim.Text = DataGridView1.Rows(e.RowIndex).Cells(2).Value.ToString
DtWaktu_kedatangan.Text =
DataGridView1.Rows(e.RowIndex).Cells(3).Value.ToString
DtWaktu_scan.Text = DataGridView1.Rows(e.RowIndex).Cells(4).Value.ToString
TxtKompen.Text = DataGridView1.Rows(e.RowIndex).Cells(5).Value.ToString
CmbStatus.Text = DataGridView1.Rows(e.RowIndex).Cells(6).Value.ToString
Cmbkelas.Text = DataGridView1.Rows(e.RowIndex).Cells(7).Value.ToString
txtid.Enabled = False
BtnSimpan.Enabled = False
EndSub
```

```
PrivateSubBtnSimpan_Click(senderAsObject, e AsEventArgs)
HandlesBtnSimpan.Click
DimidAsString
Dimid_jariAsString
DimnimAsString
Dimwaktu_kedatanganAsString
Dimwaktu_scanAsString
```

```

DimkompenAsString
Dim Status AsString
Dim kelas AsString
id = txtid.Text.ToString
id_jari = txtid_jari.Text.ToString
nim = txtnim.Text.ToString
waktu_kedatangan = DtWaktu_kedatangan.Text.ToString
waktu_scan = DtWaktu_scan.Text.ToString
kompen = TxtKompen.Text.ToString
        Status = CmbStatus.Text.ToString
        kelas = Cmbkelas.Text.ToString
ambilkoneksi()
Try
If (Status.Equals("Sakit") OrStatus.Equals("Izin")) Then
kompen = "0"
EndIf
cmd = NewSqlClient.SqlCommand("insertinto Absen( nim, id_jari,
waktu_kedatangan, waktu_scan, kompen, Status, kelas)
values('"&nim&"', '&id_jari&', '&waktu_kedatangan&', '&waktu_scan&', '&k
ompen&', '& Status &', '& kelas &') ", conn)
Dimjumlah_baris_tereksekusi = cmd.ExecuteNonQuery()
If (jumlah_baris_tereksekusi = 0) Then
MsgBox("Gagal Insert Data")
Else
MsgBox("Sukses Insert Data")
txtid.Text = ""
txtid_jari.Text = ""
txtnim.Text = ""
tampildata()

EndIf
CatchexAsException
MsgBox("Gagal Insert Data Karena :"&ex.ToString)
EndTry
EndSub

PrivateSub BtnUbah_Click_1(senderAsObject, e AsEventArgs)
HandlesBtnUbah.Click
DimidAsString
Dimid_jariAsString
DimnimAsString
Dimwaktu_kedatanganAsString
Dimwaktu_scanAsString
DimkompenAsString
Dim Status AsString
Dim kelas AsString
id = txtid.Text.ToString
id_jari = txtid_jari.Text.ToString
nim = txtnim.Text.ToString
waktu_kedatangan = DtWaktu_kedatangan.Text.ToString
waktu_scan = DtWaktu_scan.Text.ToString
kompen = TxtKompen.Text.ToString
        Status = CmbStatus.Text.ToString
        kelas = Cmbkelas.Text.ToString
ambilkoneksi()
Try

```

```

cmd = NewSqlClient.SqlCommand("update Absen set id_jari='"&id_jari&"',
nim='"&nim&"', waktu_kedatangan='"&waktu_kedatangan&"',
waktu_scan='"&waktu_scan&"', status='"& Status &"', kelas='"& kelas
&"whereid='"&id&"'", conn)
Dimjumlah_baris_tereksekusi = cmd.ExecuteNonQuery()
If (jumlah_baris_tereksekusi = 0) Then
MsgBox("Gagal ubah Data")
Else
MsgBox("Sukses ubah Data")
txtid.Text = ""
txtid_jari.Text = ""
txtnim.Text = ""
DtWaktu_kedatangan.Text = ""
DtWaktu_scan.Text = ""
TxtKompen.Text = ""
CmbStatus.Text = ""
Cmbkelas.Text = ""
tampildata()
txtid.Enabled = True
BtnSimpan.Enabled = True

EndIf
CatchexAsException
MsgBox("Gagal ubah Data Karena :"&ex.ToString)
EndTry
EndSub

PrivateSubBtnHapus_Click(senderAsObject, e AsEventArgs)
HandlesBtnHapus.Click
DimidAsString
Dimid_jariAsString
DimnimAsString
Dimwaktu_kedatanganAsString
Dimwaktu_scanAsString
DimkompenAsString
Dim Status AsString
Dim kelas AsString
id = txtid.Text.ToString
id_jari = txtid_jari.Text.ToString
nim = txtnim.Text.ToString
waktu_kedatangan = DtWaktu_kedatangan.Text.ToString
waktu_scan = DtWaktu_scan.Text.ToString
kompen = TxtKompen.Text.ToString
Status = CmbStatus.Text.ToString
kelas = Cmbkelas.Text.ToString
ambilkoneksi()
Try
cmd = NewSqlClient.SqlCommand("deletefrom Absen whereid='"&id&"'", conn)
Dimjumlah_baris_tereksekusi = cmd.ExecuteNonQuery()
If (jumlah_baris_tereksekusi = 0) Then
MsgBox("Gagal hapus Data")
Else
MsgBox("Sukses hapus Data")
txtid.Text = ""
txtid_jari.Text = ""
txtnim.Text = ""
DtWaktu_kedatangan.Text = ""

```

```

DtWaktu_scan.Text = ""
TxtKomen.Text = ""
CmbStatus.Text = ""
Cmbkelas.Text = ""
tampildata()
txtid.Enabled = True
BtnSimpan.Enabled = True

EndIf
Catch ex As Exception
MsgBox("Gagal hapus Data Karena :"&ex.ToString)
EndTry
EndSub

Private Sub Label1_Click(sender As Object, e As EventArgs) Handles Label1.Click

EndSub

Private Sub Cmbkelas_SelectedIndexChanged(sender As Object, e As EventArgs)
Handles Cmbkelas.SelectedIndexChanged
Dim myCulture As System.Globalization.CultureInfo =
Globalization.CultureInfo.CurrentCulture
Dim dayOfWeek As DayOfWeek = myCulture.Calendar.GetDayOfWeek(Date.Today)
Dim dayName As String = myCulture.DateTimeFormat.GetDayName(dayOfWeek)
If (cbRamadhan.Checked) Then
If (Cmbkelas.SelectedItem.ToString().Equals("pagi")) Then
DtWaktu_kedatangan.Text = "07:00:00"
Else
If (dayName.Equals("Jumat")) Then
DtWaktu_kedatangan.Text = "13:20:00"
Else
DtWaktu_kedatangan.Text = "11:30:00"

EndIf

EndIf

Else
If (Cmbkelas.SelectedItem.ToString().Equals("pagi")) Then
DtWaktu_kedatangan.Text = "07:00:00"
Else
If (dayName.Equals("Jumat")) Then
DtWaktu_kedatangan.Text = "13:40:00"
Else
DtWaktu_kedatangan.Text = "12:40:00"

EndIf

EndIf

EndIf

DtWaktu_kedatangan.Enabled = False
DtWaktu_scan.Enabled = False
EndSub

```

```

PrivateSub DtWaktu_kedatangan_ValueChanged(sender As Object, e As EventArgs)
Handles DtWaktu_kedatangan.ValueChanged
If DtWaktu_kedatangan.Value > Dtwaktu_scan.Value Then
Dtwaktu_scan.Value = Dtwaktu_scan.Value
Else
TxtKomen.Text = DateDiff(DateInterval.Minute,
CDate(DtWaktu_kedatangan.Text), CDate(Dtwaktu_scan.Text))
EndIf
EndSub

PrivateSub Dtwaktu_scan_ValueChanged(sender As Object, e As EventArgs)
Handles Dtwaktu_scan.ValueChanged
If Dtwaktu_scan.Value < DtWaktu_kedatangan.Value Then
Dtwaktu_scan.Value = Dtwaktu_scan.Value
TxtKomen.Text = "0"
Else
TxtKomen.Text = DateDiff(DateInterval.Minute,
CDate(DtWaktu_kedatangan.Text), CDate(Dtwaktu_scan.Text))
EndIf
EndSub

PrivateSub Timer1_Tick(sender As Object, e As EventArgs) Handles Timer1.Tick

Dtwaktu_scan.Text = Date.Now.TimeOfDay.ToString()

EndSub

PrivateSub CheckBox1_CheckedChanged(sender As Object, e As EventArgs)
Handles cbRamadhan.CheckedChanged

EndSub

PrivateSub Label10_Click(sender As Object, e As EventArgs) Handles
Label10.Click

EndSub

PrivateSub txtid_TextChanged(sender As Object, e As EventArgs)
Handles txtid.TextChanged

EndSub

PrivateSub BtCari_Click(sender As Object, e As EventArgs) Handles BtCari.Click
ambilkoneksi()
cmd = New SqlCommand("select * from Absen
wherenim='"&txtCari.Text.ToString() &"' or kelas='"&txtCari.Text.ToString()
&"' orid_jari='"&txtCari.Text.ToString() &"' or
Status='"&txtCari.Text.ToString() &"'", conn)
Dim adapter As New SqlDataAdapter(cmd)
Dim ds As New DataSet
adapter.Fill(ds, "Absen")
DataGridView1.DataSource = ds.Tables(0)
EndSub

PrivateSub PictureBox1_Click(sender As Object, e As EventArgs)

```

```
EndSub
EndClass
```

Coding Form Laporan

```
PublicClass Laporan
```

```
PrivateSub Laporan_Load(sender As Object, e As EventArgs) Handles MyBase.Load
DtTanggal_mulai.Format = DateTimePickerFormat.Custom
DtTanggal_mulai.CustomFormat = "yyyy-MM-dd"
DtTanggal_selesai.Format = DateTimePickerFormat.Custom
DtTanggal_selesai.CustomFormat = "yyyy-MM-dd"
EndSub
```

```
PrivateSub Button3_Click(sender As Object, e As EventArgs)
Handles BtnCari.Click
ambilkoneksi()
'cmd = New SqlCommand("select * from Absen wherenim='"
&txtCari.Text.ToString() & "' or kelas='" &txtCari.Text.ToString() & "'
orid_jari='" &txtCari.Text.ToString() & "' or Status='"
&txtCari.Text.ToString() & "'", conn)
cmd =
NewSqlCommand("selectid_jari,nim,nama,kelas>Nama_kelas,sum(isnull
(cast(kompen as float),0)) as kompenfromview_absenwhere tanggal >=
'"&DtTanggal_mulai.Text&"' and tanggal <= '"&DtTanggal_selesai.Text&"'
andnama_kelas ='"&CmbKelas.SelectedItem.ToString() &"'
andnimlike'"&txtCari.Text.ToString() &"%' or
kelas='"&txtCari.Text.ToString() &"' orid_jari='"&txtCari.Text.ToString()
&"' or nama like '%"&txtCari.Text.ToString() &"%'
groupbyid_jari,nim,nama,kelas>Nama_kelas ", conn)
Dim adapter AsNewSqlCommand.SqlDataAdapter(cmd)
DimdsAsNewDataSet
adapter.Fill(ds, "View_Absen")
DataGridView1.DataSource = ds.Tables(0)
EndSub
```

```
PrivateSub Button2_Click(sender As Object, e As EventArgs)
Handles BtnLihat.Click
ambilkoneksi()
'cmd = New SqlCommand("select * from Absen where tanggal >= '"
&DtTanggal_mulai.Text& "' and tanggal <= '" &DtTanggal_selesai.Text& "' and
kelas ='" &CmbKelas.SelectedItem.ToString() & "' ", conn)
'Console.WriteLine("select * from Absen where tanggal >= '"
&DtTanggal_mulai.Text& "' and tanggal <= '" &DtTanggal_selesai.Text& "' and
kelas ='" &CmbKelas.SelectedItem.ToString() & "' ")
cmd =
NewSqlCommand("selectid_jari,nim,nama,kelas>Nama_kelas,sum(isnull
(cast(kompen as float),0)) as kompenfromView_absenwhere tanggal >=
'"&DtTanggal_mulai.Text&"' and tanggal <= '"&DtTanggal_selesai.Text&"'
andnama_kelas ='"&CmbKelas.SelectedItem.ToString() &"'
groupbyid_jari,nim,nama,kelas>Nama_kelas ", conn)
'Console.WriteLine("select * from Absen where tanggal >= '"
&DtTanggal_mulai.Text& "' and tanggal <= '" &DtTanggal_selesai.Text& "' and
kelas ='" &CmbKelas.SelectedItem.ToString() & "' ")
```



```

Dim adapter AsNewSqlConnection.SqlDataAdapter(cmd)
Dim ds AsNewDataSet
adapter.Fill(ds, "wherenim='"&txtCari.Text.ToString() &"' or
kelas='"&txtCari.Text.ToString() &"' orid_jari='"&txtCari.Text.ToString()
&"' or Status='"&txtCari.Text.ToString() &"'View_absen")

        DataGridView1.DataSource = ds.Tables(0)
EndSub

PrivateSub Button1_Click(senderAsObject, e AsEventArgs)
HandlesBtnPrint.Click
tampilan_laporan.sql =
"selectid_jari,nim,nama,kelas>Nama_kelas,sum(isnull(cast(kompen as
float),0)) as kompenfromview_absenwhere tanggal >=
'"&DtTanggal_mulai.Text&"' and tanggal <= '"&DtTanggal_selesai.Text&"'
andnama_kelas ='"&CmbKelas.SelectedItem.ToString() &"'
groupbyid_jari,nim,nama,kelas>Nama_kelas "
tampilan_laporan.Show()
EndSub

PrivateSubBtnBatal_Click(senderAsObject, e AsEventArgs)
HandlesBtnBatal.Click
Close()
EndSub

PrivateSub DataGridView1_CellContentClick(senderAsObject, e
AsDataGridViewCellEventArgs) Handles DataGridView1.CellContentClick

EndSub
EndClass

```

Coding Tampilan Laporan

```

PublicClasstampilan_laporan

PublicsqlAsString

PrivateSubtampilan_laporan_Load(senderAsObject, e AsEventArgs)
HandlesMyBase.Load
'TODO: Thislineofcode loads data into the 'mahasiswa_dbDataSet1.View_absen'
table. You can move, or remove it, as needed.

ambilkoneksi()
cmd = NewSqlConnection.SqlCommand(sql, conn)

Dim adapter AsNewSqlConnection.SqlDataAdapter(cmd)
Dim ds AsNewDataSet
adapter.Fill(ds, "View_absen")
Dim dt AsDataTable
dt = ds.Tables(0)

'        Dim reportdata As ReportDataSo

'Me.View_absenTableAdapter.Fill(Me.mahasiswa_dbDataSet1.View_absen)

```

```
'Me.mahasiswa_dbDataSet1.DataTable1
For i AsInteger = 0 To dt.Rows.Count - 1
Me.DataSet1.DataTable1.Rows.Add(dt.Rows(i).Item(1), dt.Rows(i).Item(2),
dt.Rows(i).Item(5))

Next

Me.ReportViewer2.RefreshReport()
EndSub
```