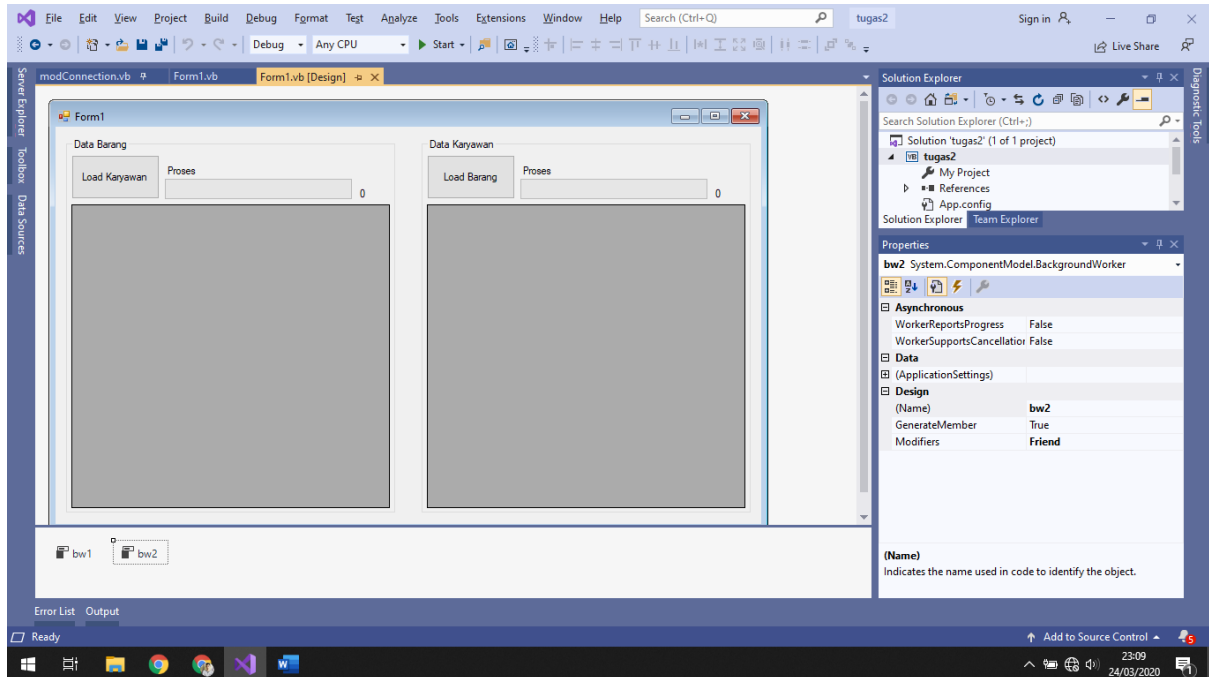


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**Npm : 06.2017.1.06730**

## Langkah langkah pembuatan

1. Buat Desain terlebih dahulu. Masukkan 2 komponen background worker.



2. Setelah itu buat database phpMyAdmin.

db_project2 barang	
id	int(11)
nama	varchar(20)
harga	varchar(20)
jumlah	varchar(20)

db_project2 karyawan	
id	int(11)
nama	varchar(20)
alamat	varchar(20)
tlp	varchar(20)

3. Tambahkan mysql connector. Terlebih dahulu harus menginstall plugin mysqlconnector. Setelah itu klik PROJECT > ADD REFERENCES > MYSQL.DATA
4. Setelah itu masukkan codingan di bawah ini untuk mengkoneksikan dengan mysql

```
Imports MySql.Data.MySqlClient
Module modConnection
    Public Conn As MySqlConnection
    Public RD As MySqlDataReader
    Public DA As MySqlDataAdapter
    Public CMD As MySqlCommand
    Public DS As DataSet
    Public simpan, ubah, hapus As String

    Public Sub bukaDB()
        Dim SQLConn As String
        SQLConn = "server=localhost;user id=root;password=;Database=db_project2"
        Conn = New MySqlConnection(SQLConn)
        If Conn.State = ConnectionState.Closed Then
            Conn.Open()
        End If
    End Sub
End Module
```

5. Import tambahan yang di perlukan.

```
Imports System.Threading
Imports MySql.Data.MySqlClient
Imports System.ComponentModel
```

6. Berikan pendeklarasian awal untuk memulai form1

```
Dim iMax As Integer = 5 'iterasi maksimal
Dim aMax As Integer = 5 'iterasi maksimal
Private Sub Form1_Load(sender As Object, e As EventArgs) Handles Me.Load
    'untuk mencegah error saat background proses mengubah UI
    Control.CheckForIllegalCrossThreadCalls = False

    With bw1
        .WorkerReportsProgress = True 'catat nilai progress
        .WorkerSupportsCancellation = True 'supaya bisa cancel
    End With
    With bw2
        .WorkerReportsProgress = True 'catat nilai progress
        .WorkerSupportsCancellation = True 'supaya bisa cancel
    End With

    'setting nilai maksimum progress bar
    ProgressBar1.Maximum = iMax
    ProgressBar2.Maximum = aMax

End Sub
```

7. Buat method untuk memanggil data.

```

Sub DataKaryawan()
    Call bukaDB()
    DA = New MySqlDataAdapter("SELECT * FROM karyawan", Conn)
    DS = New DataSet
    DA.Fill(DS, "karyawan")
    DataGridView1.DataSource = DS.Tables("karyawan")
    DataGridView1.ReadOnly = True
End Sub
Sub DataBarang()
    Call bukaDB()
    DA = New MySqlDataAdapter("SELECT * FROM barang", Conn)
    DS = New DataSet
    DA.Fill(DS, "barang")
    DataGridView2.DataSource = DS.Tables("barang")
    DataGridView2.ReadOnly = True
End Sub

```

8. Berikan action pada tombol

```

Private Sub btnBarang_Click(sender As Object, e As EventArgs) Handles btnBarang.Click
    bw2.RunWorkerAsync()
End Sub

Private Sub btnKaryawan_Click(sender As Object, e As EventArgs) Handles btnKaryawan.Click
    bw1.RunWorkerAsync()
End Sub

```

9. Buat aksi untuk background Worker

```

Private Sub bw1_DoWork(sender As Object, e As System.ComponentModel.DoWorkEventArgs)
Handles bw1.DoWork
    For i = 0 To iMax
        'handle jika ada cancel
        If bw1.CancellationPending = True Then
            e.Cancel = True
            Exit For
        Else
            'proses normal tanpa cancel
            lblProgres1.Text = i 'menampilkan iterasi ke pada textbox
            'mengirim progress iterasi
            bw1.ReportProgress(i)
            'supaya proses berhenti sejenak 1000 milidetik = 1 detik
            System.Threading.Thread.Sleep(1000)
        End If
    Next
End Sub
Private Sub bw1_ProgressChanged(sender As Object,
    e As ProgressChangedEventArgs) _
Handles bw1.ProgressChanged
    ProgressBar1.Value = e.ProgressPercentage
End Sub
Private Sub bw1_RunWorkerCompleted(sender As Object,
    e As RunWorkerCompletedEventArgs) _
Handles bw1.RunWorkerCompleted
    MsgBox("Proses Data Karyawan Selesai")
    Call DataKaryawan()
End Sub

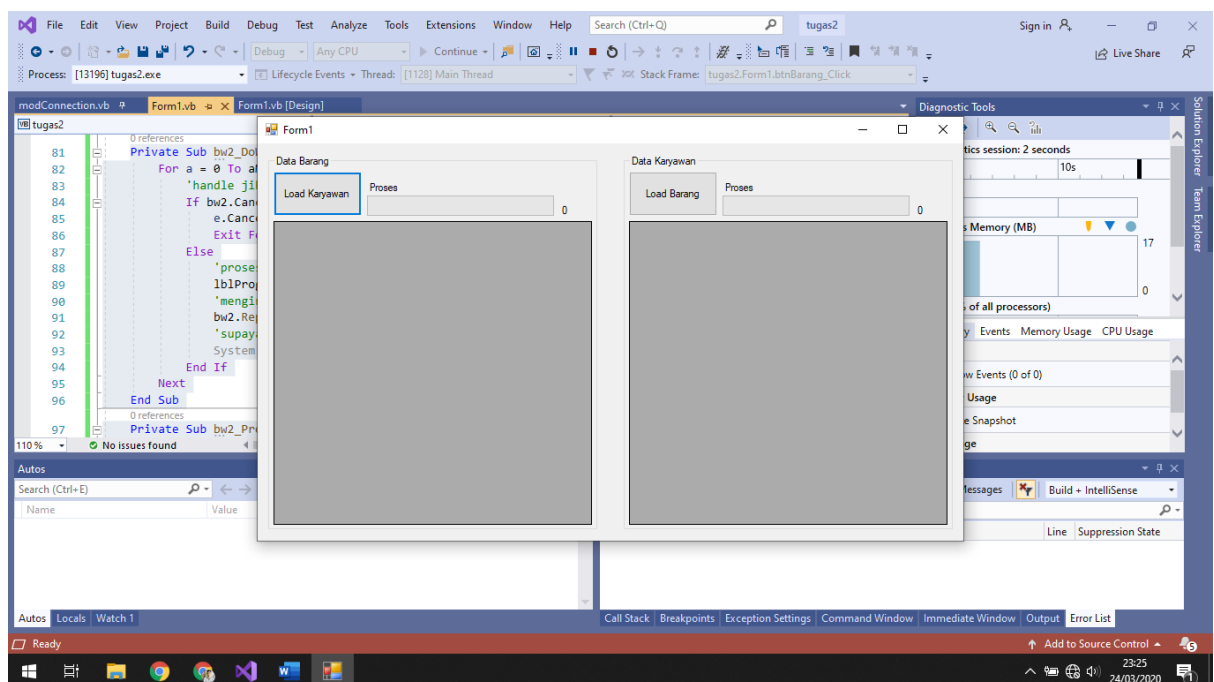
```

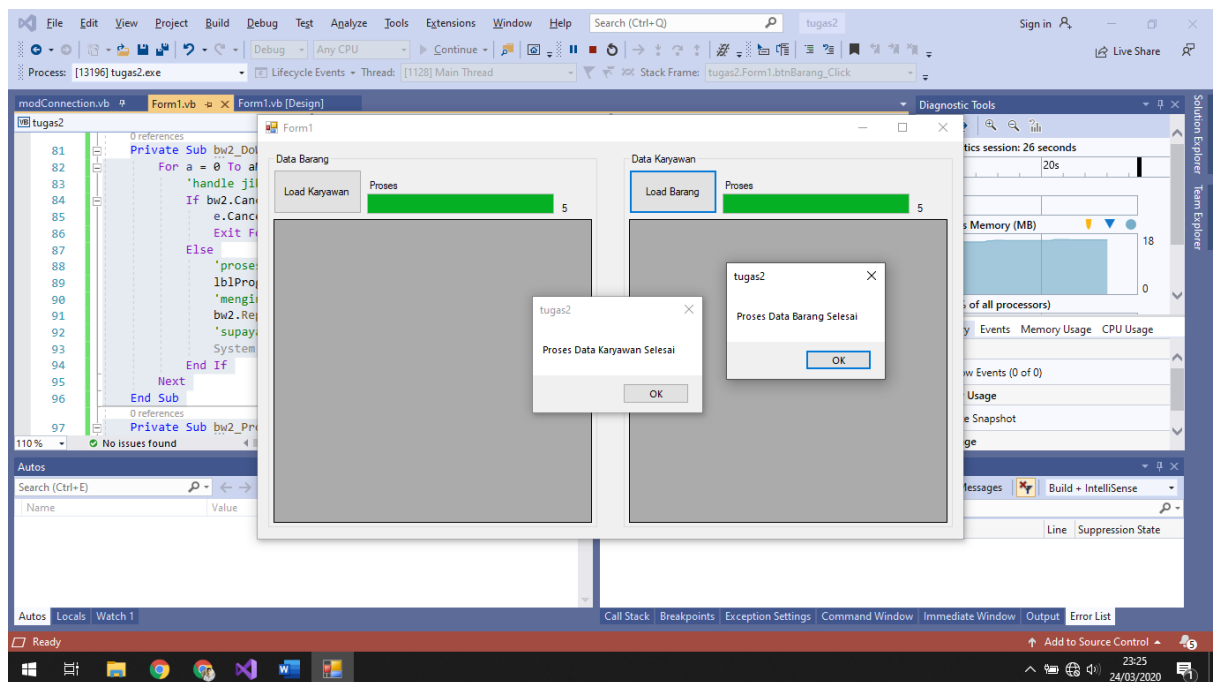
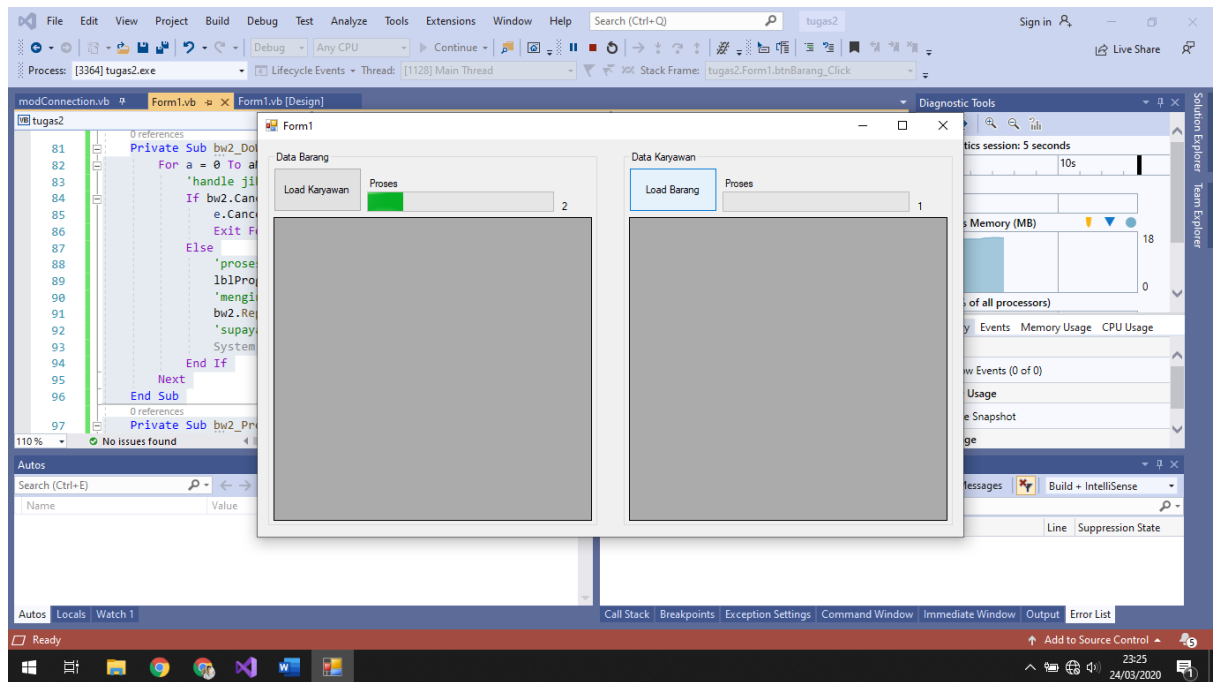
End Sub

#### 10. Untuk background worker 2

```
Private Sub bw2_DoWork(sender As Object, e As DoWorkEventArgs) Handles bw2.DoWork
    For a = 0 To aMax
        'handle jika ada cancel
        If bw2.CancellationPending = True Then
            e.Cancel = True
            Exit For
        Else
            'proses normal tanpa cancel
            lblProgres2.Text = a 'menampilkan iterasi ke pada textbox
            'mengirim progress iterasi
            bw2.ReportProgress(a)
            'supaya proses berhenti sejenak 1000 milidetik = 1 detik
            System.Threading.Thread.Sleep(1000)
        End If
    Next
End Sub
Private Sub bw2_ProgressChanged(sender As Object,
    e As ProgressChangedEventArgs) _
    Handles bw2.ProgressChanged
    ProgressBar2.Value = e.ProgressPercentage
End Sub
Private Sub bw2_RunWorkerCompleted(sender As Object,
    e As RunWorkerCompletedEventArgs) _
    Handles bw2.RunWorkerCompleted
    MsgBox("Proses Data Barang Selesai")
    Call DataBarang()
End Sub
End Class
```

Hasil Software :





Visual Studio Code interface showing a C# project named 'tugas2'. The main window displays the 'Form1' design view, which contains two data grids: 'Data Barang' and 'Data Karyawan'. The 'Data Barang' grid lists items with columns 'id', 'nama', and 'alamat'. The 'Data Karyawan' grid lists employees with columns 'id', 'nama', and 'harga'.

The 'Form1' window has two tabs: 'Load Karyawan' and 'Proses'. The 'Proses' tab is active, showing the data grids. The 'Data Barang' grid has 14 rows, and the 'Data Karyawan' grid has 14 rows.

The 'Data Barang' grid contains the following data:

id	nama	alamat
1	Kurt	Suite 559
2	Eulah	Apt. 985
3	Alessia	Apt. 390
4	Eloy	Suite 581
5	Rolando	Apt. 666
6	Agustin	Suite 749
7	Tatyana	Apt. 953
8	Paula	Apt. 821
9	Brenda	Suite 957
10	Magnolia	Apt. 968
11	Ediba	Suite 958
12	Fletcher	Apt. 583
13	Nils	Apt. 016
14	Alfred	Apt. 195

The 'Data Karyawan' grid contains the following data:

id	nama	harga
1	botsford	33312615
2	blandadach	4541927
3	mooregleichner	3981
4	marks	313
5	okongraham	343161706
6	bergsnaum	2423
7	purdy	96
8	lenkezulauif	208198486
9	durgan	68956006
10	volkman	457
11	lednemanvin	2
12	bahinger	2531
13	gleasondare	4024
14	von	869

The Visual Studio Code interface also shows the 'Solution Explorer' on the right, displaying the project structure. The 'Form1' window is titled 'Form1' and has a 'Load Karyawan' button and a 'Proses' button. The 'Proses' button is highlighted in green.