

BAB V

PENUTUP

5.1 Kesimpulan

Kesimpulan yang dapat diambil dari diagnosis penyakit gigi dengan metode tanya jawab secara sistem pakar ini yaitu :

1. Sistem pakar diagnosa penyakit gigi yang dibuat ini terdiri dari model tanya jawab, user berinteraksi dengan sistem pakar dengan cara menjawab pertanyaan yang diberikan, kemudian mendapatkan kesimpulan (solusi).
2. Sistem pakar diagnosa penyakit gigi ini menggunakan teknik pelacakan *forward chaining*, dimulai dari fakta-fakta (gejala) kemudian kesimpulan (solusi).
4. Sistem pakar ini tidak 100% menggantikan posisi Dokter tetapi hanya memiliki makna konsultatif dan memberikan pengetahuan bagi pemakainya.

5.2 Saran

Saran yang diusulkan untuk memperbaiki kekurangan diagnosis penyakit gigi dengan metode tanya jawab secara sistem pakar adalah :

1. Mengembangkan sistem pakar ini dengan menambahkan *knowledge base* baru bila terdapat perkembangan-perkembangan yang belum terjangkau, sehingga pemecahan masalah tidak monoton dan selalu mengikuti kemajuan teknologi kedokteran.

2. Sistem pakar yang telah dibuat ini dapat dikembangkan lebih lanjut dan dapat diperbaharui atau diperluas *knowledge base*-nya, bila terjadi penambahan terhadap jenis penyakit, serta diadakan studi kelayakan terhadap sistem pakar ini.
3. Faktor kepastian dalam mendiagnosa penyakit merupakan hal yang penting, menentukan derajat kepercayaan terhadap basil yang diberikan maka derajat kepercayaan pengguna semakin tinggi.
3. Sistem pakar untuk mendiagnosis penyakit gigi ini diharapkan dapat membantu *user* yaitu pasien atau calon dokter penyakit gigi sebagai evaluasi pembanding tentang diagnosa sementara yang disimpulkan.
4. Dalam sistem pakar ini, seorang admin harus mengerti *knowledge* tentang gigi, untuk dapat mengisi data-data yang diperlukan untuk mendiagnosa suatu penyakit gigi.

DAFTAR PUSTAKA

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QUESTIONER
APLIKASI SISTEM PAKAR UNTUK MENDIAGNOSA PENYAKIT GIGI

Nama	:
Hari / Tanggal	:
Alamat	:
Pekerjaan	:

Berilah Tanda (√) pada jawaban dari pertanyaan di bawah ini serta berikan alasannya !

❖ Berdasarkan Fungsi

1. Menurut anda apakah aplikasi sistem pakar ini sudah sesuai dengan kebutuhan ?

Ya Tidak Cukup

Alasan:
2. Menurut anda apakah aplikasi sistem pakar ini bermanfaat untuk anda ?

Ya Tidak Cukup

Alasan:
3. Menurut anda apakah aplikasi sistem pakar ini dapat bermanfaat?

Ya Tidak Cukup

Alasan:
4. Menurut anda apakah aplikasi sistem pakar ini masih banyak terdapat kekurangan ?

Ya Tidak Cukup

Alasan :

❖ **Berdasarkan Operasional**

1. Menurut anda apakah tampilan aplikasi system pakar gigi ini bersifat *user friendly*?

Ya

Tidak

Cukup

Alasan:

2. Menurut anda apakah aplikasi system pakar ini dapat memberikan informasi ?

Ya

Tidak

Cukup

Alasan:

3. Menurut anda apakah aplikasi system pakar ini mudah dipahami?

Ya

Tidak

Cukup

Alasan :

❖ **Berdasarkan Tampilan**

1. Menurut anda, dilihat dari segi tampilan apakah aplikasi system pakar ini masih banyak terdapat kekurangan ?

Ya

Tidak

Cukup

Alasan :

2. Menurut anda, dilihat dari segi warna apakah aplikasi system pakar ini memiliki perpaduan yang pas?

Ya

Tidak

Cukup

Alasan:

3. Menurut anda apakah tampilan aplikasi system pakar ini sudah menarik ?

Ya

Tidak

Cukup

Alasan :



YAYASAN ENGGAL WARAS

KLINIK SEHAT SEJAHTERA

Jl. Raya Nusantara No. 2 (PERUMNAS 3) Bekasi Timur ☎ 88349427
Jl. Permata Raya No. 3 Permata Regency Bekasi, Cibitung
(Depan Kantor Pemasaran).

No. : KSS/MKT/037/III/07

Bekasi, April 2007

Kepada Yth.

Universitas Darma Persada

Hal : **Bukti melakukan Penelitian**

Dengan hormat,

Dengan adanya surat ini, Bersama ini perkenalkanlah kami Klinik Sehat Sejahtera yang beralamat di :

1. **JL. Nusantara No. 2 Perumnas 3 Bekasi Timur.**
2. **JL. Permata Raya No. 3 Perumahan Permata Bekasi Regency Wanasari – Cibitung (Depan Kantor Pemasaran).**
3. **Jl. Villa Bekasi Indah No.47 Desa Jejalen Jaya – Tambun Utara**

Menyatakan, bahwa Mahasiswa Darma Persada yang bernama

Nama : Ricardo Jefry M

NIM : 04230901

Benar adanya telah melakukan penelitian dan tanya jawab dengan Dokter gigi dan ahli medis yang bersangkutan untuk data-data Skripsi/Tugas Akhir yang berjudul

" APLIKASI SISTEM PAKAR UNTUK MENDIAGNOSA PENYAKIT GIGI"

Demikian surat ini kami sampaikan, Atas perhatiannya kami ucapkan terima kasih.

Hormat kami,
KLINIK SEHAT SEJAHTERA

Drg Ratih Ratna Indriastuti





YAYASAN ENGGAL WARAS

KLINIK SEHAT SEJAHTERA

Jl. Raya Nusantara No. 2 (PERUMNAS 3) Bekasi Timur ☎ 88349427
Jl. Permata Raya No. 3 Permata Regency Bekasi, Cibitung
(Depan Kantor Pemasaran).

No. : KSS/MKT/202/III/07

Bekasi, 26 Juli 2007

Kepada Yth.

Universitas Darma Persada

H a l : **Surat Evaluasi**

Dengan hormat,

Dengan adanya surat Evaluasi ini dimaksudkan sebagai surat pernyataan yang menyatakan bahwa Aplikasi Sistem Pakar Penyakit Gigi yang telah dirancang oleh **Sdr. Ricardo** telah dilakukan uji coba atau Evaluasi untuk data - data Diagnosa Penyakit Gigi oleh Dokter Gigi setempat (**Drg. Ratih Ratna Indriastuti**).

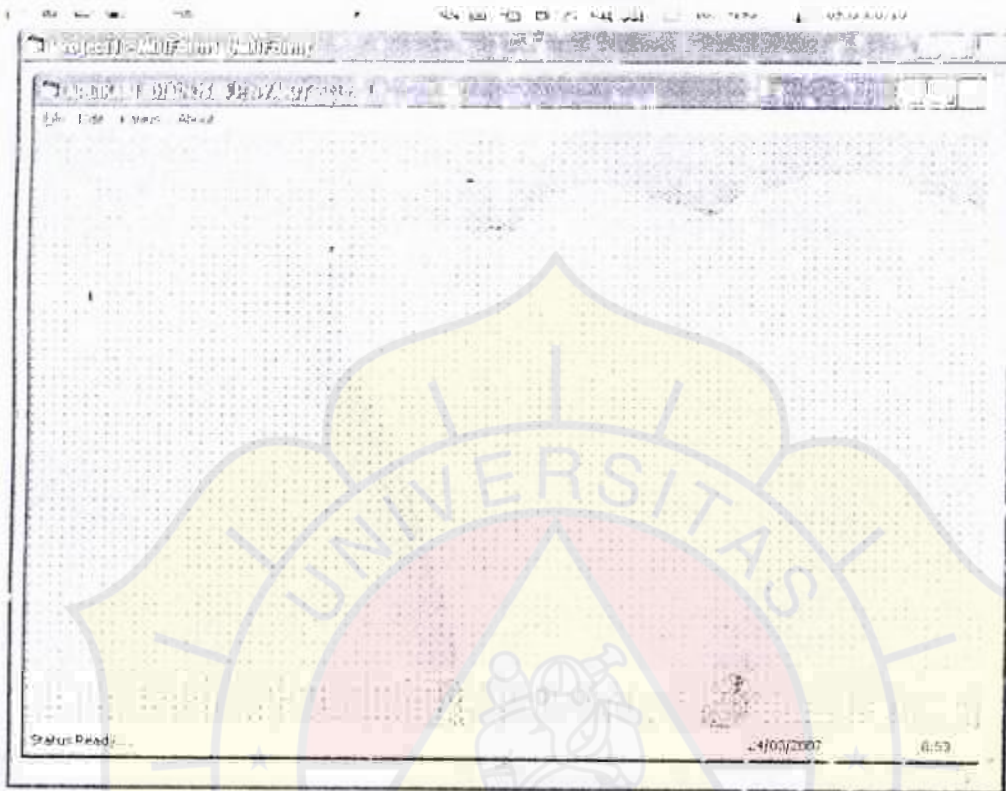
Hormat kami,
KLINIK SEHAT SEJAHTERA

Drg Ratih Ratna Indriastuti

MODULE

```
Public cn As New ADODB.Connection
Public rsKnowledge As New ADODB.Recordset
Public rsSolusi As New ADODB.Recordset
Public rsWorking As New ADODB.Recordset
Public Sub bukadatabase()
cn.Open "Provider=MSDASQL.1;persist security info=false;data
source=gigi_koneksi"
rsKnowledge.Open "Select * from Knowledge", cn, adOpenDynamic,
adLockOptimistic
rsSolusi.Open "Select * from Solusi", cn, adOpenDynamic, adLockOptimistic,
adCmdText
rsWorking.Open "Select * from Working", en, adOpenDynamic,
adLockOptimistic
End Sub
Public Sub Tutupdatabase()
rsKnowledge.Close
rsSolusi.Close
rsWorking.Close
en.Close
End Sub
```


MDI Form



```
Private Sub MDIForm_Activate()  
MDIForm1.StatusBar1.Panels(1).Text = "Status Ready.."  
End Sub
```

```
Private Sub mnuAbout2_Click()  
frmAbout.Show  
End Sub
```

```
Private Sub mnuDiagnosa_Click()  
FrmUtama.Show  
End Sub
```

```
Private Sub mnuEditKnowledge_Click()  
frmEditingKnowledge.Show  
End Sub
```

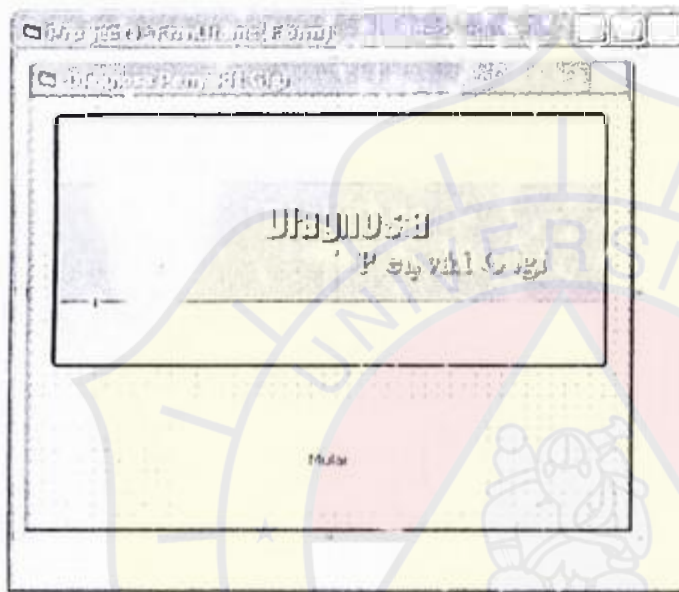
```
Private Sub mnuGambar_Click()  
frmGambar.Show  
End Sub
```

```
Private Sub mnuJenis_Click()
```

```
frmKamus.Show  
End Sub
```

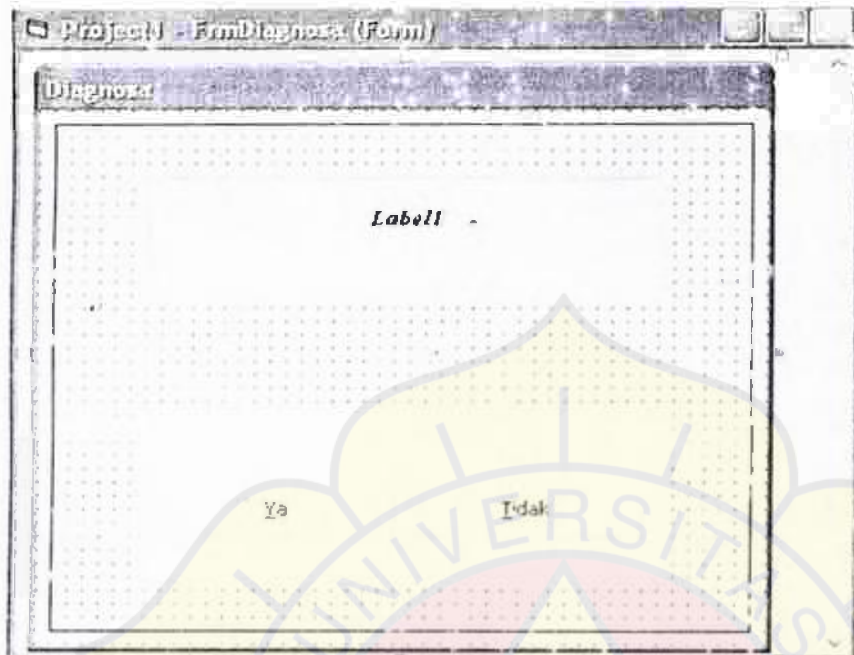
```
Private Sub mnuKeluar_Click()  
End  
End Sub
```

Form Utama



```
Private Sub cmdDiagnosa_Click()  
Unload Me  
bukadatabase  
FrmDiagnosa.Show  
End Sub
```

FormDiagnosa



```
Private Sub cmdYa_Click()  
On Error Resume Next
```

```
rsWorking.AddNew  
rsWorking!id = rsKnowledge!id  
rsWorking!Fakta = rsKnowledge!faktaYA  
rsWorking.Update
```

```
jwb = rsKnowledge!Ya  
If Left(jwb, 1) = "T" Then  
rsKnowledge.MoveFirst  
rsKnowledge.Find "id=" & jwb & ""  
Label1.Caption = rsKnowledge!Tanya  
Else  
rsSolusi.MoveFirst  
rsSolusi.Find "id=" & jwb & ""  
FrmSolusi.Label1.Caption = rsSolusi!Solusi  
frmPengunjung.Label3.Caption = rsSolusi!Solusi  
Unload Me  
FrmSolusi.Show  
End If
```

```
End Sub
```

```
Private Sub cmdTdk_Click()
```

```
On Error Resume Next
rsWorking.AddNew
rsWorking!id = rsKnowledge!id
rsWorking!Fakta = rsKnowledge!faktaTIDAK
rsWorking.Update
```

```
jwb = rsKnowledge! Tidak
If Left(jwb, 1) = "T" Then
rsKnowledge.MoveFirst
rsKnowledge.Find "id=" & jwb & ""
Label1.Caption = rsKnowledge!Tanya
Else
rsSolusi.MoveFirst
rsSolusi.Find "id=" & jwb & ""
FrmSolusi.Label1.Caption = rsSolusi!Solusi
frmPengunjung.Label3.Caption = rsSolusi!Solusi
Unload Me
FrmSolusi.Show
End If
```

```
End Sub
```

```
Private Sub Form_Activate()
rsKnowledge.MoveFirst
Label1.Caption = rsKnowledge!Tanya
```

```
rsWorking.Requery
While Not rsWorking.EOF
rsWorking.Delete
rsWorking.MoveNext
Wend
```

```
MDIForm1.StatusBar1.Panels(1).Text = "Diagnosa.."
```

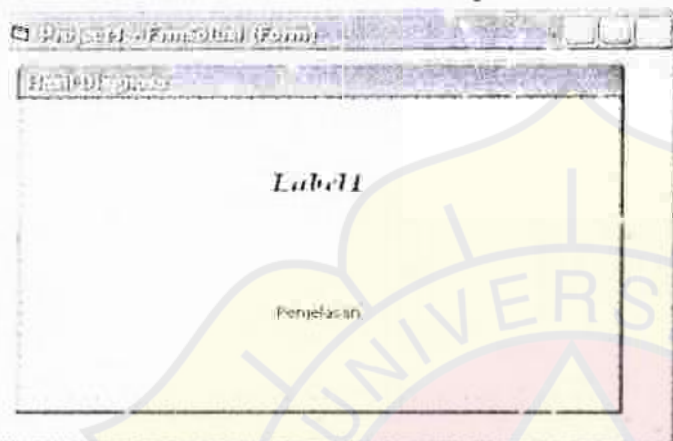
```
End Sub
```

```
Private Sub Form_Load()
rsKnowledge.MoveFirst
Label1.Caption = rsKnowledge!Tanya
```

```
rsWorking.Requery
While Not rsWorking.EOF
rsWorking.Delete
rsWorking.MoveNext
Wend
```

End Sub

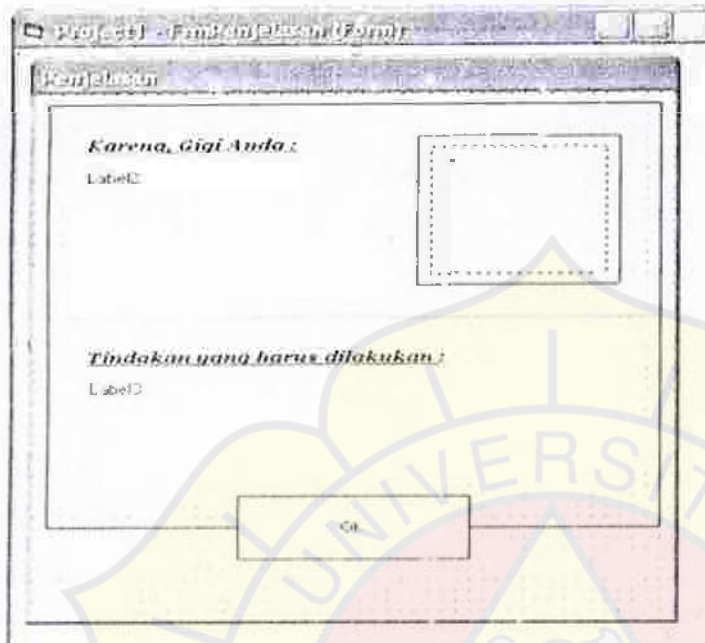
Form Solusi



```
Private Sub cmdAlasan_Click()  
On Error Resume Next  
FrmPehjelasan.Label2.Caption = ""  
FrmPenjelasan.Label3.Caption = ""  
  
rsWorking.Requery  
rsWorking.MoveFirst  
While Not rsWorking.EOF  
FrmPenjelasan.Label2.Caption = FrmPenjelasan.Label2.Caption +  
rsWorking!Fakta + vbCrLf  
rsWorking.MoveNext  
Wend  
FrmPenjelasan.Label3.Caption = FrmPenjelasan.Label3.Caption +  
rsSolusi!Tindakan + vbCrLf  
FrmPenjelasan.Show  
Unload Me  
  
End Sub
```

```
Private Sub Form_Activate()  
MDIForm1.StatusBar1.Panels(1).Text = "Hasil Diagnosa..."  
End Sub
```

FormPenjelasan



```
Private Sub Command1_Click()  
Unload Me  
frmPengunjung.Show  
MDIForm1.Enabled = False  
End Sub
```

```
Private Sub Form_Activate()  
MDIForm1.StatusBar1.Panels(1).Text = "Penjelasan"  
End Sub
```

```
Private Sub Form_Load()  
If FrmSolusi.Label1.Caption = "Karies Email" Then  
    FrmPenjelasan.Image1.Picture = LoadPicture(App.Path & ("Gambar\Karies  
    Email.jpg"))  
Elseif FrmSolusi.Label1.Caption = "Karies Dentin" Then  
    FrmPenjelasan.Image1.Picture = LoadPicture(App.Path & ("Gambar\Karies  
    Dentin.jpg"))  
Elseif FrmSolusi.Label1.Caption = "Resesi Gingiva" Then  
    FrmPenjelasan.Image1.Picture = LoadPicture(App.Path & ("Gambar\Resesi  
    Gingiva.jpg"))  
Elseif FrmSolusi.Label1.Caption = "Karies Protunda Terbuka" Then  
    FrmPenjelasan.Image1.Picture = LoadPicture(App.Path & ("Gambar\Karies  
    Protunda Terbuka.jpg"))  
Elseif FrmSolusi.Label1.Caption = "Karies Protunda Tertutup" Then
```

```

    FrmPenjelasan.Image1.Picture = LoadPicture(App.Path & ("Gambar\Karies
    Protunda Tertutup.jpg"))
    Elseif FrmSolusi.Label1.Caption = "Periodontitis" Then
        FrmPenjelasan.Image1.Picture = LoadPicture(App.Path &
        ("Gambar\Periodontitis.jpg"))
    Elseif FrmSolusi.Label1.Caption = "Gingivitis" Then
        FrmPenjelasan.Image1.Picture = LoadPicture(App.Path &
        ("Gambar\Gingivitis.jpg"))
    Elseif FrmSolusi.Label1.Caption = "Polip Pulpa" Then
        FrmPenjelasan.Image1.Picture = LoadPicture(App.Path & ("Gambar\Polip
    Pulpa.jpg"))
    Elseif FrmSolusi.Label1.Caption = "Pulpitis Reversibel" Then
        FrmPenjelasan.Image1.Picture = LoadPicture(App.Path & ("Gambar\Pulpitis
    Reversibel.jpg"))
    Elseif FrmSolusi.Label1.Caption = "Polip Gingiva" Then
        FrmPenjelasan.Image1.Picture = LoadPicture(App.Path & ("Gambar\Polip
    Gingiva.jpg"))
    Elseif FrmSolusi.Label1.Caption = "Pulpitis Ireversibel Akut" Then
        FrmPenjelasan.Image1.Picture = LoadPicture(App.Path & ("Gambar\Pulpitis
    Ireversibel Akut.jpg"))
    Elseif FrmSolusi.Label1.Caption = "Ganggren Pulpa" Then
        FrmPenjelasan.Image1.Picture = LoadPicture(App.Path & ("Gambar\Ganggren
    Pulpa.jpg"))
    Elseif FrmSolusi.Label1.Caption = "Nekrotik Pulpa" Then
        FrmPenjelasan.Image1.Picture = LoadPicture(App.Path & ("Gambar\Nekrotik
    Pulpa.jpg"))
    Elseif FrmSolusi.Label1.Caption = "Abses Apikal" Then
        FrmPenjelasan.Image1.Picture = LoadPicture(App.Path & ("Gambar\Abses
    Apikal.jpg"))
    Elseif FrmSolusi.Label1.Caption = "Epulis" Then
        FrmPenjelasan.Image1.Picture = LoadPicture(App.Path &
        ("Gambar\Epulis.jpg"))
    Elseif FrmSolusi.Label1.Caption = "Kista" Then
        FrmPenjelasan.Image1.Picture = LoadPicture(App.Path &
        ("Gambar\Kista.jpg"))
    Elseif FrmSolusi.Label1.Caption = "Gigi Sehat" Then
        FrmPenjelasan.Image1.Picture = LoadPicture(App.Path & ("Gambar\Gigi
    Sehat.jpg"))
    Else: FrmPenjelasan.Image1.Picture = LoadPicture("")
    End If

End Sub

Private Sub Form_Unload(Cancel As Integer)
    Tutupdatabase
End Sub

```

FormPengunjung

Form Pengunjung.

Tampilkan dengan besar

Nama Anda:

Jenis Penyakit yang di Diagnosa:

Label3

Simpan

Ok

lihat Status: id:

```
Public cn As New ADODB.Connection  
Public rs As ADODB.Recordset
```

```
Private Sub cmdOK_Click()  
If txtPengunjung.Text = "" Then  
MsgBox "Anda harus mengisi Form ini", vbInformation, "Perhatian"  
frmPengunjung.Show  
txtPengunjung.SetFocus  
MDIForm1.Enabled = False  
Else  
MsgBox "Terima Kasih atas pengisian Form-nya, Semoga Anda Lekas Sembuh", vbOKOnly, "Pengunjung"  
Unload Me  
MDIForm1.Enabled = True  
MDIForm1.Show  
End If
```


End Sub

```
Private Sub cmdSimpan_Click()
```

```
If txtPengunjung.Text = "" Then
```

```
    MsgBox "Anda harus mengisi Nama Anda", vbInformation, "Perhatian"
```

```
    txtPengunjung.SetFocus
```

```
    MDIForm1.Enabled = False
```

```
Else
```

```
    rs.Open
```

```
    rs.AddNew
```

```
    rs(0) = txtPengunjung.Text
```

```
    rs(1) = Label3.Caption
```

```
    rs.Update
```

```
    MsgBox "Data sudah disimpan", vbInformation, "Informasi"
```

```
    rs.MoveLast
```

```
    txtPengunjung.Text = rs(0)
```

```
    Label3.Caption = rs(1)
```

```
    MDIForm1.Enabled = False
```

```
    txtPengunjung.Locked = True
```

```
    cmdSimpan.Enabled = False
```

```
    cmdStat.Enabled = True
```

```
    rs.Close
```

```
    cn.Close
```

```
End If
```

End Sub

```
Private Sub cmdStat_Click()
```

```
Me.Hide
```

```
frmStatistik.Show
```

```
End Sub
```

```
Private Sub Form_Activate()
```

```
MDIForm1.StatusBar1.Panels(1).Text = "Pengunjung.."
```

```
End Sub
```

```
Private Sub Form_Load()
```

```
Set cn = New ADODB.Connection
```

```
cn.Provider = "MSDASQL.1"
```

```
cn.ConnectionString = "Data source=gigi_koneksi"
```

```
cn.Open
```

```
Set rs = New ADODB.Recordset
```

```
rs.Source = "Select * from Pengunjung"
```

```
rs.CursorLocation = adUseClient
```

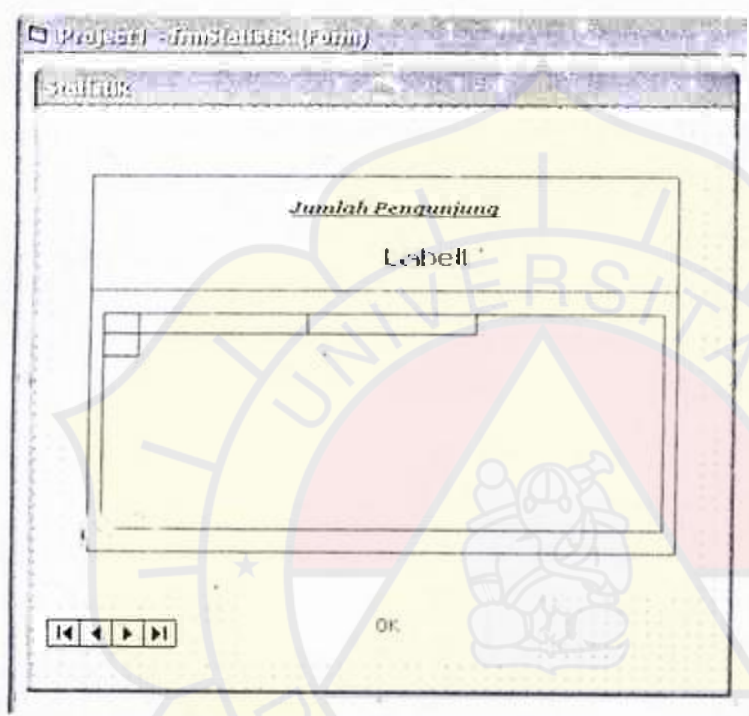
```

rs.LockType = adLock Optimistic
Set rs.ActiveConnection = cn

cmdStat.Enabled = False
MDIForm1.StatusBar1.Panels(1).Text = "Pengunjung."
End Sub

```

Form Statistik



```

Public en As New ADODB.Connection
Public rs As ADODB.Recordset

Private Sub cmdOK_Click()
Unload Me
frmPengunjung.Show
End Sub

Private Sub Form_Load()
Set cn = New ADODB.Connection
cn.Provider = "MSDASQL.1"
cn.ConnectionString = "Data source = gigi_koneksi"
cn.Open

Set rs = New ADODB.Recordset
rs.Source = "Select COUNT>Nama) from Pengunjung"
rs.CursorLocation = adUseClient

```

```

rs.LockType = adLockOptimistic
Set rs.ActiveConnection = cn
rs.Open
lblPengunjung.Caption = rs(0)
rs.Close

```

```

Adodc1.ConnectionString = "Provider=MSDASQL.;persist security
info=False;Data source = gigi_koneksi"
Adodc1.RecordSource = "Select penyakit as Nama_Penyakit, count(penyakit) as
Total_Penderita from pengunjung group by penyakit order by count(penyakit)
desc"
Adodc1.Refresh

```

```

Set DataGrid1.DataSource = Adodc1
DataGrid1.AllowUpdate = False
DataGrid1.Columns(0).Width = 3000
DataGrid1.Columns(1).Width = 2000

```

```

MDIForm1.StatusBar1.Panels(1).Text = "Statistik."
End Sub

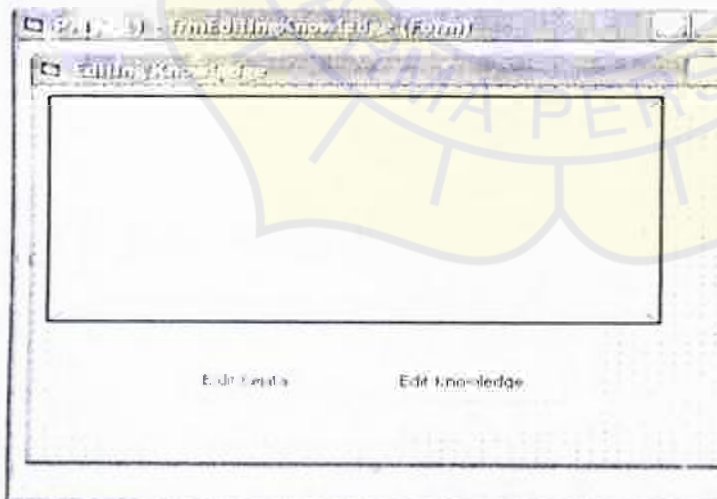
```

```

Private Sub Form_Unload(Cancel As Integer)
MDIForm1.StatusBar1.Panels(1).Text=""
End Sub

```

Form Editing Knowledge



```

Private Sub cmdEditGejala_Click()
Unload Me

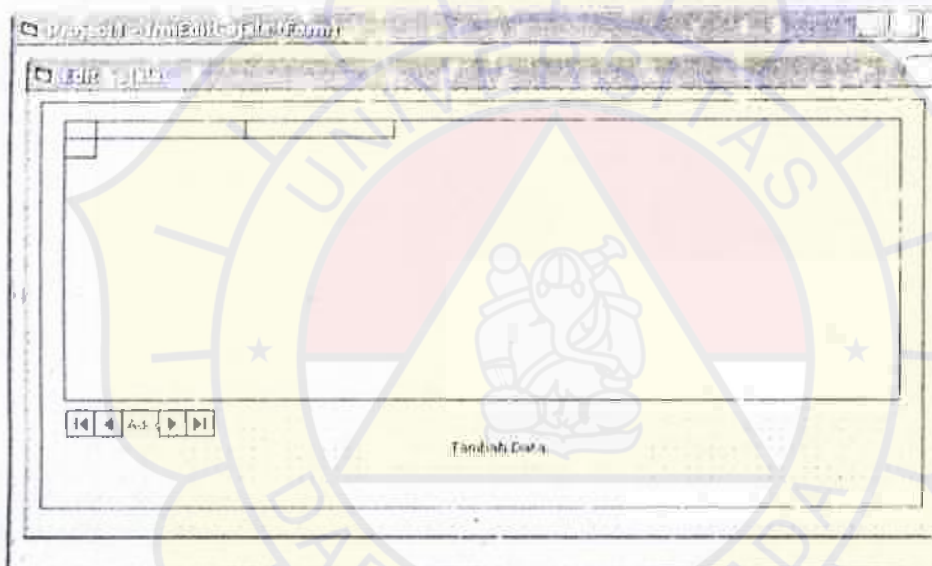
```

```
frmEditGejala.Show  
End Sub
```

```
Private Sub cmdEditKnowledge_Click()  
Unload Me  
frmEditJenis.Show  
End Sub
```

```
Private Sub Form_Activate()  
MDIForm1.StatusBar1.Panels(1).Text = "Editing Knowledge.."  
End Sub
```

Form Edit Gejala



```
Private Sub cmdTambah_Click()  
frmLoginGejala.Show  
Unload Me  
End Sub
```

```
Private Sub Form_Activate()  
MDIForm1.StatusBar1.Panels(1).Text = "Edit gejala."  
End Sub
```

```
Private Sub Form_Load()  
Adodc1.ConnectionString = "Provider=MSDASQL.1;Persist Security  
Info=False;Data Source=gigi_koneksi"  
Adodc1.RecordSource = "select * from knowledge"  
Adodc1.Refresh  
Set DataGrid1.DataSource = Adodc1
```

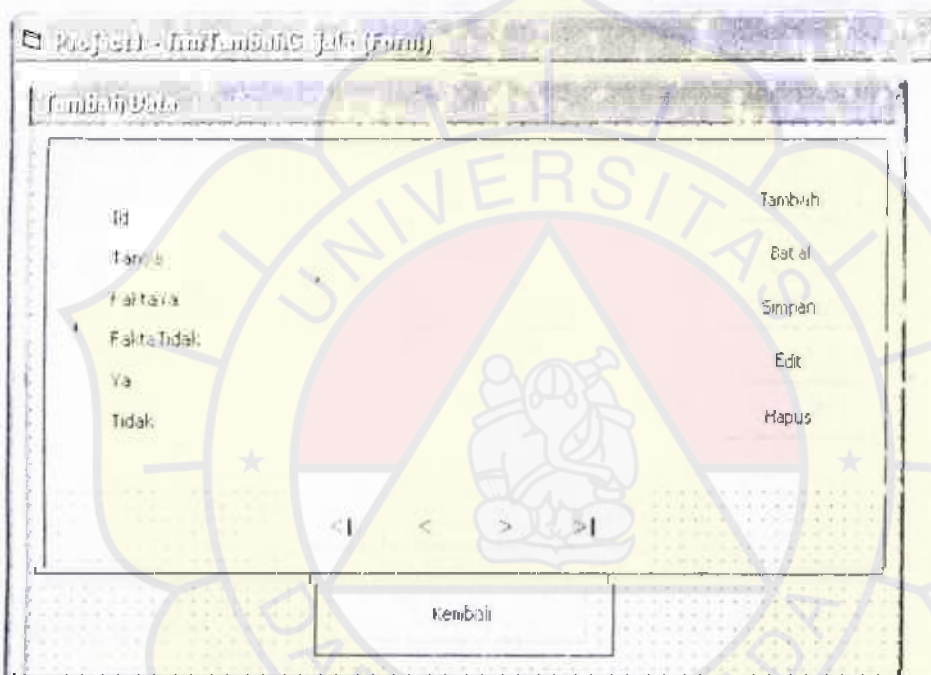
```

DataGrid1.AllowUpdate = False
DataGrid1.Columns(0).Width = 400
DataGrid1.Columns(1).Width = 5000
DataGrid1.Columns(2).Width = 5000
DataGrid1.Columns(3).Width = 5000
DataGrid1.Columns(4).Width = 400
DataGrid1.Columns(5).Width = 600

```

End Sub

Form Tambah Gejala



```

Public cn As New ADO.DB.Connection
Public rs As ADO.DB.Recordset

```

```

Private Sub cmdBatal_Click()
txtId.Text = ""
txtTanya.Text = ""
txtFaktaYa.Text = ""
txtFaktaTidak.Text = ""
txtYa.Text = ""
txtTidak.Text = ""
txtId.SetFocus
cmdTambah.Enabled = True
cmdSimpan.Enabled = True
cmdBatal.Enabled = False
cmdEdit.Enabled = False
CursorDisabled

```

End Sub

```
Private Sub cmdEdit_Click()
```

```
    pesan = MsgBox("Apakah anda yakin?", vbExclamation + vbOKCancel,  
    "Perhatian")
```

```
    If pesan = vbOK Then
```

```
        CursorDisabled
```

```
        BukaKunciText
```

```
        txtId.Locked = True
```

```
        txtYa.Locked = True
```

```
        txtTidak.Locked = True
```

```
        cmdTambah.Enabled = False
```

```
        cmdSimpan.Enabled = False
```

```
        cmdBatal.Enabled = False
```

```
        cmdHapus.Enabled = False
```

```
        cmdEdit.Enabled = False
```

```
        cmdEdit.Visible = False
```

```
        cmdEditSimpan.Enabled = True
```

```
        cmdEditSimpan.Visible = True
```

```
    End If
```

```
    If pesan = vbCancel Then
```

```
        TutupKunciText
```

```
        CursorEnabled
```

```
    End If
```

End Sub

```
Private Sub cmdEditSimpan_Click()
```

```
    rs(0) = txtId.Text
```

```
    rs(1) = txtTanya.Text
```

```
    rs(2) = txtFaktaYa.Text
```

```
    rs(3) = txtfaktaTidak.Text
```

```
    rs(4) = txtYa.Text
```

```
    rs(5) = txtTidak.Text
```

```
    MsgBox "Data sudah diedit", vbInformation, "Informasi"
```

```
    cmdEditSimpan.Enabled = False
```

```
    cmdEditSimpan.Visible = False
```

```
    cmdTambah.Enabled = True
```

```
    cmdHapus.Enabled = True
```

```
    cmdEdit.Enabled = True
```

```
    cmdEdit.Visible = True
```

```
    TutupKunciText
```

```
    CursorEnabled
```

End Sub

```
Private Sub cmdHapus_Click ()  
pesan = MsgBox("Apakah anda yakin?", vbOKCancel + vbInformation,  
"Perhatian")
```

```
If pesan = vbOK Then
```

```
rs.Delete
```

```
rs.Update
```

```
rs.MoveFirst
```

```
txtId.Text = rs(0)
```

```
txtTanya.Text = rs(1)
```

```
txtFaktaYa.Text = rs(2)
```

```
txtfaktaTidak.Text = rs(3)
```

```
txtYa.Text = rs(4)
```

```
txtTidak.Text = rs(5)
```

```
MsgBox "Data sudah dihapus", vbInformation, "Informasi"
```

```
cmdBatal.Enabled = False
```

```
cmdSimpan.Enabled = False
```

```
cmdTambah.Enabled = True
```

```
TutupKunciText
```

```
End If
```

```
If pesan = vbCancel Then
```

```
TutupKunciText
```

```
End If
```

```
End Sub
```

```
Private Sub cmdKembali_Click()
```

```
Unload Me
```

```
frmEditGejala.Show
```

```
End Sub
```

```
Private Sub cmdPertama_Click()
```

```
rs.MoveFirst
```

```
txtId.Text = rs(0)
```

```
txtTanya.Text = rs(1)
```

```
txtFaktaYa.Text = rs(2)
```

```
txtfaktaTidak.Text = rs(3)
```

```
txtYa.Text = rs(4)
```

```
txtTidak.Text = rs(5)
```

```
End Sub
```

```
Private Sub cmdSebelum_Click()
```

```
rs.MovePrevious
```

```
If rs.BOF Then
```

```
MsgBox "Data awal habis", vbExclamation, "Perhatian"
```

```
rs.MoveNext
```

End If

```
txtId.Text = rs(0)
txtTanya.Text = rs(1)
txtFaktaYa.Text = rs(2)
txtfaktaTidak.Text = rs(3)
txtYa.Text = rs(4)
txtTidak.Text = rs(5)
```

End Sub

Private Sub cmdSesudah_Click()

rs.MoveNext

If rs.EOF Then

MsgBox "Data akhir habis", vbExclamation, "Perhatian"

rs.MovePrevious

End If

```
txtId.Text = rs(0)
txtTanya.Text = rs(1)
txtFaktaYa.Text = rs(2)
txtfaktaTidak.Text = rs(3)
txtYa.Text = rs(4)
txtTidak.Text = rs(5)
```

End Sub

Private Sub cmdSimpan_Click()

If txtId.Text = "" Or txtTanya.Text = "" Or txtFaktaYa.Text = "" Or
txtfaktaTidak.Text = "" Or txtYa.Text = "" Or txtTidak.Text = "" Then

MsgBox "Lengkapilah Data dengan Benar", vbCritical, "Peringatan"

TutupKunciText

Else

BukaKunciText

rs.AddNew

rs(0) = txtId.Text

rs(1) = txtTanya.Text

rs(2) = txtFaktaYa.Text

rs(3) = txtfaktaTidak.Text

rs(4) = txtYa.Text

rs(5) = txtTidak.Text

rs.Update

MsgBox "Data sudah disimpan", vbInformation, "Informasi"

rs.MoveFirst

txtId.Text = rs(0)

txtTanya.Text = rs(1)

txtFaktaYa.Text = rs(2)

txtfaktaTidak.Text = rs(3)

txtYa.Text = rs(4)


```

txtTidak.Text = rs(5)
TutupKunciText
cmdHapus.Enabled = True
cmdBatal.Enabled = False
cmdSimpan.Enabled = False
cmdTambah.Enabled = True
cmdEdit.Enabled = True
CursorEnabled
End If

```

```
End Sub
```

```

Private Sub cmdTambah_Click()
pesan = MsgBox("Apakah anda yakin?", vbExclamation + vbOKCancel,
"Perhatian")

```

```

If pesan = vbOK Then
    BukaKunciText
    CursorDisabled
    txtId.Text = ""
    txtTanya.Text = ""
    txtFaktaYa.Text = ""
    txtfaktaTidak.Text = ""
    txtYa.Text = ""
    txtTidak.Text = ""
    txtId.SetFocus
    cmdTambah.Enabled = False
    cmdHapus.Enabled = False
    cmdBatal.Enabled = True
    cmdSimpan.Enabled = True
    cmdEdit.Enabled = False

```

```
End If
```

```
If pesan = vbCancel Then
```

```
    TutupKunciText
```

```
End If
```

```
End Sub
```

```
Private Sub cmdTerakhir_Click()
```

```
rs.MoveLast
```

```
txtId.Text = rs(0)
```

```
txtTanya.Text = rs(1)
```

```
txtfaktaYa.Text = rs(2)
```

```
txtfaktaTidak.Text = rs(3)
```

```
txtYa.Text = rs(4)
```

```
txtTidak.Text = rs(5)
```

```
End Sub
```

```
Private Sub Form_Activate()  
MDIForm1.StatusBar1.Panels(1).Text = "Tambah Gejala.."  
End Sub
```

```
Private Sub Form_Load()  
Set cn = New ADODB.Connection  
cn.Provider = "MSDASQL.1"  
cn.ConnectionString = "Data source = gigi_koneksi"  
cn.Open
```

```
Set rs = New ADODB.Recordset  
rs.Source = "Select * from Knowledge"  
rs.CursorLocation = adUseClient  
rs.LockType = adLockOptimistic  
Set rs.ActiveConnection = cn
```

```
TutupKunciText  
rs.Open  
txtId.Text = rs(0)  
txtTanya.Text = rs(1)  
txtFaktaYa.Text = rs(2)  
txtfaktaTidak.Text = rs(3)  
txtYa.Text = rs(4)  
txtTidak.Text = rs(5)  
cmdBatal.Enabled = False  
cmdHapus.Enabled = True  
cmdSimpan.Enabled = False  
cmdEditSimpan.Enabled = False  
cmdEditSimpan.Visible = False
```

```
End Sub
```

```
Private Sub BukaKunciText()  
txtId.Locked = False  
txtTanya.Locked = False  
txtFaktaYa.Locked = False  
txtfaktaTidak.Locked = False  
txtYa.Locked = False  
txtTidak.Locked = False  
End Sub
```

```
Private Sub TutupKunciText()  
txtId.Locked = True  
txtTanya.Locked = True  
txtFaktaYa.Locked = True  
txtfaktaTidak.Locked = True
```

```
txtYa.Locked = True  
txtTidak.Locked = True  
End Sub
```

```
Private Sub CursorDisabled()  
cmdPertama.Enabled = False  
cmdTerakhir.Enabled = False  
cmdSebelum.Enabled = False  
cmdSesudah.Enabled = False
```

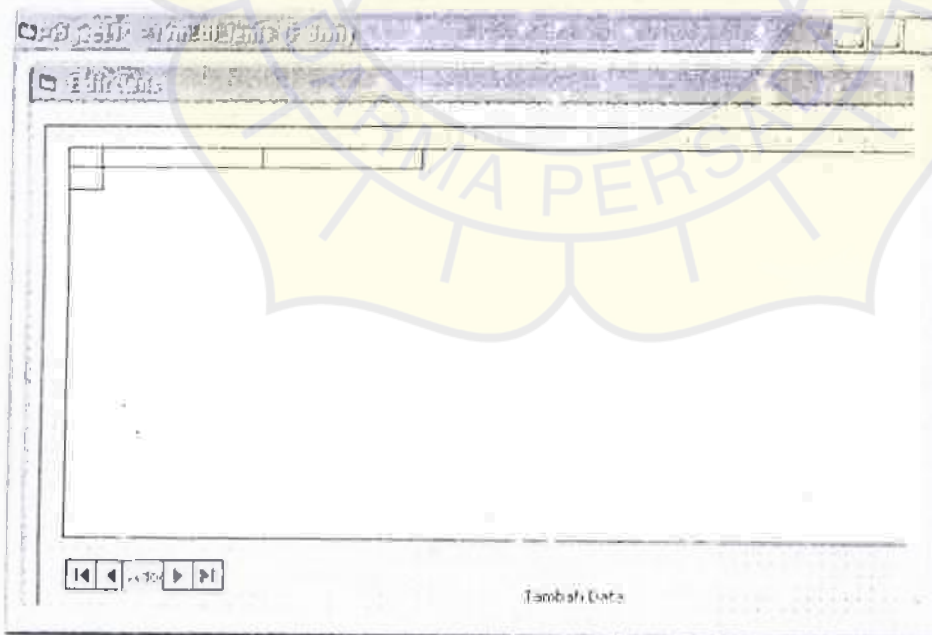
```
End Sub
```

```
Private Sub CursorEnabled()  
cmdPertama.Enabled = True  
cmdTerakhir.Enabled = True  
cmdSebelum.Enabled = True  
cmdSesudah.Enabled = True
```

```
End Sub
```

```
Private Sub Form_Unload(Cancel As Integer)  
rs.Close  
cn.Close  
End Sub
```

Form Edit Jenis



```
Private Sub cmdTambah_Click()
```

```
frmLoginJenis.Show  
Unload Me  
End Sub
```

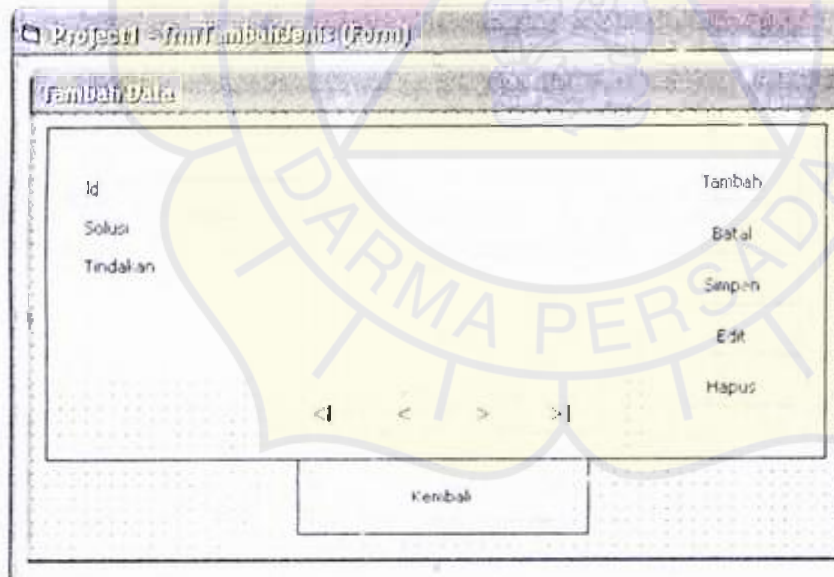
```
Private Sub Form_Activate()  
MDIForm1.StatusBar1.Panels(1).Text = "Edit Jenis"  
End Sub
```

```
Private Sub Form_Load()  
Adodc1.ConnectionString = "Provider=MSDASQL.1;persist security  
info=False;Data source = gigi_koneksi"  
Adodc1.RecordSource = "select * from Solusi"  
Adodc1.Refresh
```

```
Set DataGrid1.DataSource = Adodc1  
DataGrid1.AllowUpdate = False  
DataGrid1.Columns(0).Width = 400  
DataGrid1.Columns(1).Width = 2500  
DataGrid1.Columns(2).Width = 10000
```

```
End Sub
```

Form Tambah Jenis



```
Public cn As New ADODB.Connection  
Public rs As ADODB.Recordset
```

```
Private Sub cmdBatal_Click()  
txtId.Text = ""  
txtSolusi.Text = ""
```

```
txtTindakan.Text=""
txtId.SetFocus
cmdTambah.Enabled = True
cmdSimpan.Enabled = True
cmdBatal.Enabled = False
cmdEdit.Enabled = False
CursorDisabled
```

End Sub

```
Private Sub cmdEdit_Click()
```

```
    pesan = MsgBox("Apakah anda yakin?", vbExclamation + vbOKCancel,
"Perhatian")
```

```
    If pesan = vbOK Then
```

```
        CursorDisabled
```

```
        BukaKunciText
```

```
        txtId.Locked = True
```

```
        'txtTindakan.Locked = True
```

```
        cmdTambah.Enabled = False
```

```
        cmdSimpan.Enabled = False
```

```
        cmdBatal.Enabled = False
```

```
        cmdHapus.Enabled = False
```

```
        cmdEdit.Enabled = False
```

```
        cmdEdit.Visible = False
```

```
        cmdEditSimpan.Enabled = True
```

```
        cmdEditSimpan.Visible = True
```

```
    End If
```

```
    If pesan = vbCancel Then
```

```
        TutupKunciText
```

```
        CursorEnabled
```

```
    End If
```

```
End Sub
```

```
Private Sub cmdEditSimpan_Click()
```

```
    rs(0) = txtId.Text
```

```
    rs(1) = txtSolusi.Text
```

```
    rs(2) = txtTindakan.Text
```

```
    MsgBox "Data sudah diedit", vbInformation, "Informasi"
```

```
    cmdEditSimpan.Enabled = False
```

```
    cmdEditSimpan.Visible = False
```

```
    cmdTambah.Enabled = True
```

```
    cmdHapus.Enabled = True
```

```
    cmdEdit.Enabled = True
```

```
    cmdEdit.Visible = True
```

```
    TutupKunciText
```

```
    CursorEnabled
```

End Sub

```
Private Sub cmdHapus_Click()  
pesan = MsgBox("Apakah anda yakin?", vbOKCancel + vbInformation,  
"Informasi")  
If pesan = vbOK Then  
    rs.Delete  
    rs.Update  
    rs.MoveFirst  
    txtId.Text = rs(0)  
    txtSolusi.Text = rs(1)  
    txtTindakan.Text = rs(2)  
    MsgBox "Data sudah dihapus", vbInformation, "Informasi"  
    cmdBatal.Enabled = False  
    cmdSimpan.Enabled = False  
    cmdTambah.Enabled = True  
    TutupKunciText  
End If  
If pesan = vbCancel Then  
    TutupKunciText  
End If  
End Sub
```

```
Private Sub cmdKembali_Click()  
Unload Me  
frmEditJenis.Show  
End Sub
```

```
Private Sub cmdPertama_Click()  
rs.MoveFirst  
txtId.Text = rs(0)  
txtSolusi.Text = rs(1)  
txtTindakan.Text = rs(2)  
End Sub
```

```
Private Sub cmdSebelum_Click()  
rs.MovePrevious  
If rs.BOF Then  
    MsgBox "Data awal habis", vbExclamation, "Perhatian"  
    rs.MoveNext  
End If  
txtId.Text = rs(0)  
txtSolusi.Text = rs(1)
```

```
txtTindakan.Text = rs(2)
```

```
End Sub
```

```
Private Sub cmdSesudah_Click()
```

```
rs.MoveNext
```

```
If rs.EOF Then
```

```
    MsgBox "Data akhir habis", vbExclamation, "Perhatian"
```

```
    rs.MovePrevious
```

```
End If
```

```
txtId.Text = rs(0)
```

```
txtSolusi.Text = rs(1)
```

```
txtTindakan.Text = rs(2)
```

```
End Sub
```

```
Private Sub cmdSimpan_Click()
```

```
If txtId.Text = "" Or txtSolusi.Text = "" Or txtTindakan.Text = "" Then
```

```
    MsgBox "Lengkapilah Data dengan Benar", vbCritical, "Peringatan"
```

```
    frmTambahJenis.Show
```

```
Else
```

```
    rs.AddNew
```

```
    rs(0) = txtId.Text
```

```
    rs(1) = txtSolusi.Text
```

```
    rs(2) = txtTindakan.Text
```

```
    rs.Update
```

```
    MsgBox "Data sudah disimpan", vbInformation, "Informasi"
```

```
    rs.MoveFirst
```

```
    txtId.Text = rs(0)
```

```
    txtSolusi.Text = rs(1)
```

```
    txtTindakan.Text = rs(2)
```

```
    cmdHapus.Enabled = True
```

```
    cmdBatal.Enabled = False
```

```
    cmdSimpan.Enabled = False
```

```
    cmdTambah.Enabled = True
```

```
    cmdEdit.Enabled = True
```

```
    CursorEnabled
```

```
End If
```

```
End Sub
```

```
Private Sub cmdTambah_Click()
```

```
    pesan = MsgBox("Apakah anda yakin?", vbExclamation + vbOKCancel,  
    "Perhatian")
```

```
    If pesan = vbOK Then
```

```
        BukaKunciText
```

```

CursorDisabled
txtId.Text = ""
txtSolusi.Text = ""
txtTindakan.Text = ""
txtId.SetFocus
cmdTambah.Enabled = False
cmdHapus.Enabled = False
cmdBatal.Enabled = True
cmdSimpan.Enabled = True
cmdEdit.Enabled = False
End If
If pesan = vbCancel Then
    TutupKunciText
End If

End Sub

Private Sub cmdTerakhir_Click()
rs.MoveLast
txtId.Text = rs(0)
txtSolusi.Text = rs(1)
txtTindakan.Text = rs(2)
End Sub

Private Sub Form_Activate()
MDIForm1.StatusBar1.Panels(1).Text = "Tambah Jenis"
End Sub

Private Sub Form_Load()
Set cn = New ADODB.Connection
cn.Provider = "MSDASQL.1"
cn.ConnectionString = "Data source = gigi_koneksi"
cn.Open

Set rs = New ADODB.Recordset
rs.Source = "Select * from Solusi"
rs.CursorLocation = adUseClient
rs.LockType = adLockOptimistic
Set rs.ActiveConnection = cn

TutupKunciText
rs.Open
txtId.Text = rs(0)
txtSolusi.Text = rs(1)
txtTindakan.Text = rs(2)

```



```
cmdBat:il.Enabled = False  
cmdHapus.Enabled = True  
cmdSimpan.Enabled = False  
cmdEditSimpan.Enabled = False  
cmdEditSimpan.Visible = False
```

End Sub

```
Private Sub BukaKunciText()  
txtId.Locked = False  
txtSolusi.Locked = False  
txtTindakan.Locked = False  
End Sub
```

```
Private Sub TutupKunciText()  
txtId.Locked = True  
txtSolusi.Locked = True  
txtTindakan.Locked = True  
End Sub
```

```
Private Sub CursorDisabled()  
cmdPertama.Enabled = False  
cmdTerakhir.Enabled = False  
cmdSebelum.Enabled = False  
cmdSesudah.Enabled = False
```

End Sub

```
Private Sub CursorEnabled()  
cmdPertama.Enabled = True  
cmdTerakhir.Enabled = True  
cmdSebelum.Enabled = True  
cmdSesudah.Enabled = True
```

End Sub

Form Kamus

```
Private Sub cmdCari_Click()  
frmCari.Show  
End Sub
```

```
Private Sub cmdTambahData_Click()  
frmLog inKamus.Show  
Unload Me
```

```
End Sub
```

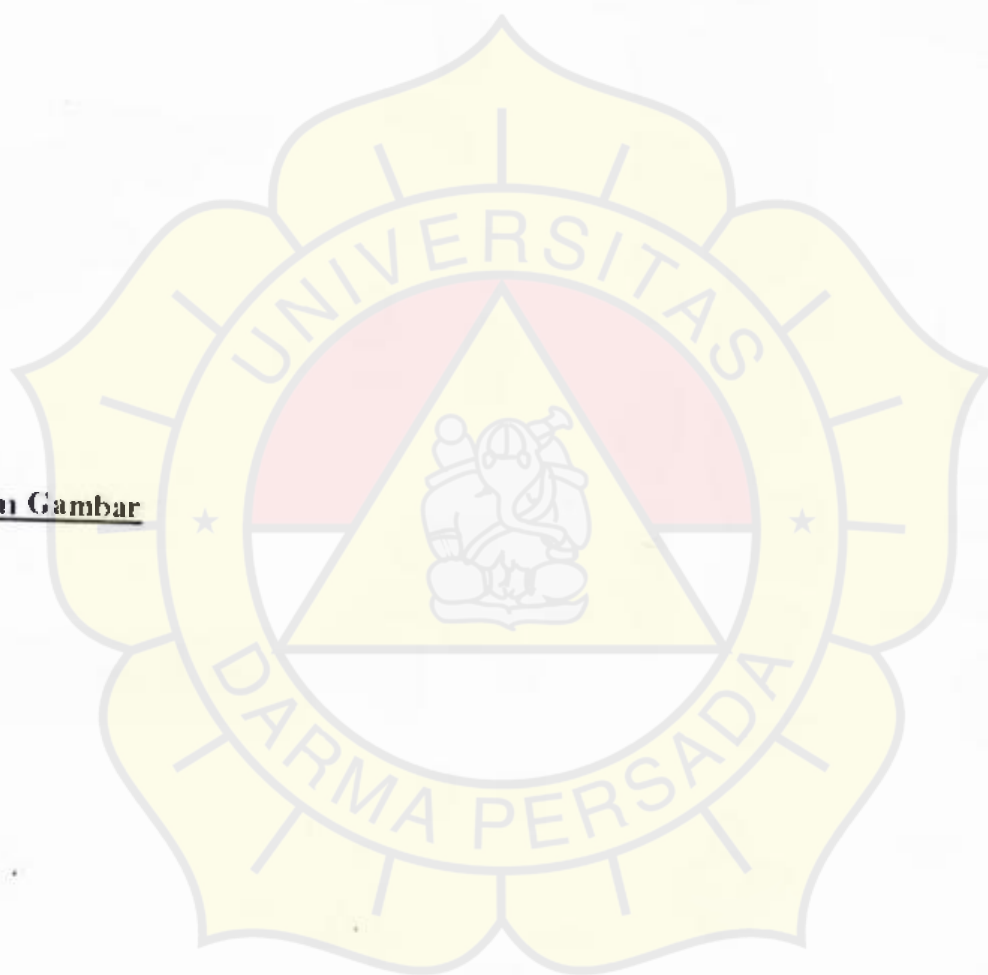
```
Private Sub Form_Activate()  
MDIForm1.StatusBar1.Panels(1).Text = "Kamus"  
End Sub
```

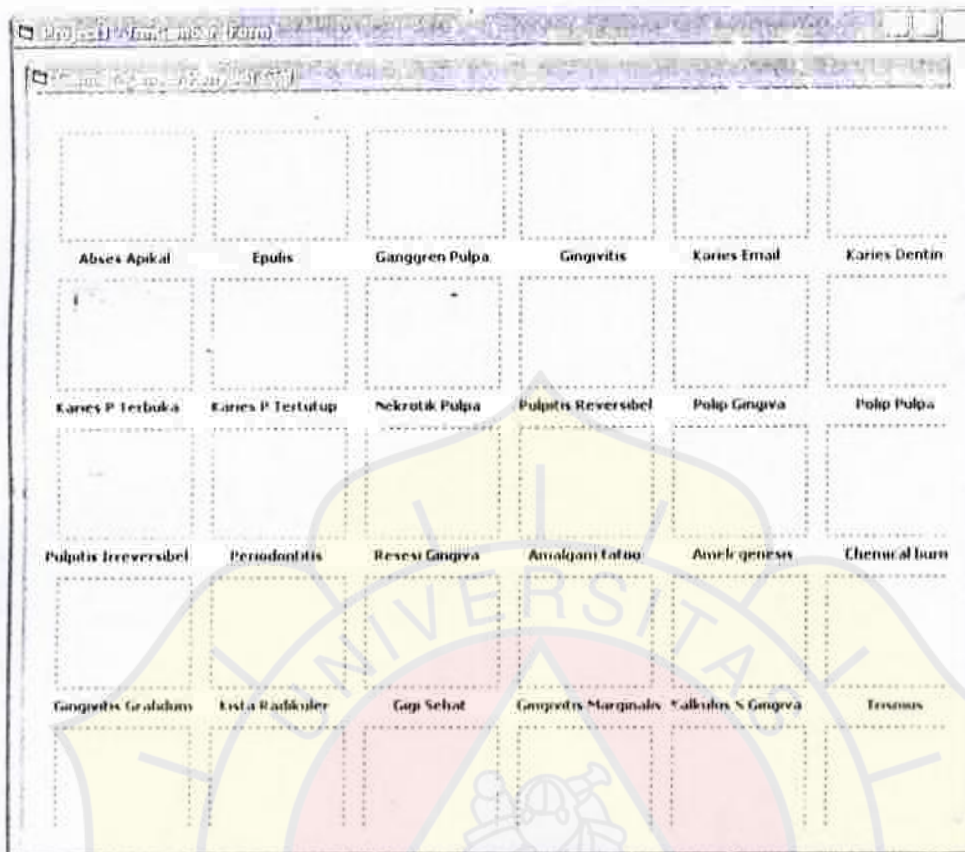
```
Private Sub Form_Load()  
Adodc1.ConnectionString = "Provider=MSDASQL.1;persist security  
info=False;Data source = gigi_koneksi"  
Adodc1.RecordSource = "Select * from Kamus"  
Adodc1.Refresh
```

```
Set DataGrid1.DataSource = Adodc1  
DataGrid1.AllowUpdate = False  
DataGrid1.Columns(0).Width = 600  
DataGrid1.Columns(1).Width = 4000  
DataGrid1.Columns(2).Width = 16000
```

End Sub

Form Gambar





```
Private Sub Form_Activate()
MDIForm1.StatusBar1.Panels(1).Text = "Gambar.."
End Sub
```

```
Private Sub Form_Load()
Image1.Picture = LoadPicture(App.Path & ("Gambar\Abses Apikal.jpg"))
Image2.Picture = LoadPicture(App.Path & ("Gambar\Epulis.jpg"))
Image3.Picture = LoadPicture(App.Path & ("Gambar\Ganggren Pulpa.jpg"))
Image4.Picture = LoadPicture(App.Path & ("Gambar\Gingivitis.jpg"))
Image5.Picture = LoadPicture(App.Path & ("Gambar\Karies Email.jpg"))
Image6.Picture = LoadPicture(App.Path & ("Gambar\Karies Dentin.jpg"))
Image7.Picture = LoadPicture(App.Path & ("Gambar\Karies Protunda
Terbuka.jpg"))
Image8.Picture = LoadPicture(App.Path & ("Gambar\Karies Protunda
Tertutup.jpg"))
Image9.Picture = LoadPicture(App.Path & ("Gambar\Nekrotik Pulpa.jpg"))
Image10.Picture = LoadPicture(App.Path & ("Gambar\Pulpitis Reversibel.jpg"))
Image11.Picture = LoadPicture(App.Path & ("Gambar\Polip Gingiva.jpg"))
Image12.Picture = LoadPicture(App.Path & ("Gambar\Polip Pulpa.jpg"))
Image13.Picture = LoadPicture(App.Path & ("Gambar\Pulpitis Irreversibel
Akut.jpg"))
Image14.Picture = LoadPicture(App.Path & ("Gambar\Periodontitis.jpg"))
Image15.Picture = LoadPicture(App.Path & ("Gambar\Resesi Gingiva.jpg"))
```

```

Image16.Picture = LoadPicture(App.Path & ("Gambar\Amalgam tatoo.jpg"))
Image17.Picture = LoadPicture(App.Path & ("Gambar\Amelogenesis.jpg"))
Image18.Picture = LoadPicture(App.Path & ("Gambar\Chemical burn.jpg"))
Image19.Picture = LoadPicture(App.Path & ("Gambar\Gingivitis
Grafidum.jpg"))
Image20.Picture = LoadPicture(App.Path & ("Gambar\Kista Radikuler.jpg"))
Image21.Picture = LoadPicture(App.Path & ("Gambar\Gigi Sehat.jpg"))
Image22.Picture = LoadPicture(App.Path & ("Gambar\Gingivitis
Marginalis.jpg"))
Image23.Picture = LoadPicture(App.Path & ("Gambar\Kalkulus Supra
Gingiva.jpg"))
Image24.Picture = LoadPicture(App.Path & ("Gambar\Trismus.jpg"))
Image25.Picture = LoadPicture(App.Path & ("Gambar\Ranula.jpg"))
Image26.Picture = LoadPicture(App.Path & ("Gambar\Stomatitis.jpg"))
Image27.Picture = LoadPicture(App.Path & ("Gambar\Resesi Gingival.jpg"))
Image28.Picture = LoadPicture(App.Path & ("Gambar\Scalling.jpg"))
Image29.Picture = LoadPicture(App.Path & ("Gambar\Torus Palatinus.jpg"))
Image30.Picture = LoadPicture(App.Path & ("Gambar\Granuloma.jpg"))

```

End Sub

```

Private Sub Image1_Click()
FrmDeskripsi.Label1.Caption = "Abses Apikal"
FrmDeskripsi.Text1.Text = "Radang di periapikal yang telah berlangsung lama"
FrmDeskripsi.Show vbModal
End Sub

```

```

Private Sub Image10_Click()
FrmDeskripsi.Label1.Caption = "Pulpitis Reversibel"
FrmDeskripsi.Text1.Text = "Timbul secara spontan karena panas / dingin. Bisa
beberapa menit bahkan berjam-jam dan tetap ada walaupun penyebab
dihilangkan"
FrmDeskripsi.Show vbModal
End Sub

```

```

Private Sub Image11_Click()
FrmDeskripsi.Label1.Caption = "Polip Gingiva"
FrmDeskripsi.Text1.Text = "Hasil peradangan jaringan gingiva dengan
permukaan halus. Tidak mudah berdarah dan polip berasal dari Gingiva"
FrmDeskripsi.Show vbModal
End Sub

```

```

Private Sub Image12_Click()
FrmDeskripsi.Label1.Caption = "Polip Pulpa"

```

```
FrmDeskripsi.Text1.Text = "Hasil peradangan jaringan pulpa terbuka, disebabkan karena iritasi tingkat rendah yang berlangsung lama"  
FrmDeskripsi.Show vbModal  
End Sub
```

```
Private Sub Image13_Click()  
FrmDeskripsi.Label1.Caption = "Pulpitis Ireversibel"  
FrmDeskripsi.Text1.Text = "Keadaan inflamasi pulpa yang persisten, dapat simtomatik / asimtomatik, karena jamur yang berbahaya"  
FrmDeskripsi.Show vbModal  
End Sub
```

```
Private Sub Image14_Click()  
FrmDeskripsi.Label1.Caption = "Periodontitis"  
FrmDeskripsi.Text1.Text = "Radang akut periapikal akibat iritasi melalui saluran akar"  
FrmDeskripsi.Show vbModal  
End Sub
```

```
Private Sub Image15_Click()  
FrmDeskripsi.Label1.Caption = "Resesi Gingiva"  
FrmDeskripsi.Text1.Text = "Keadaan dimana gingiva mengalami penurunan akibat penyakit periodontal atau sikat gigi yang terlalu kuat"  
FrmDeskripsi.Show vbModal  
End Sub
```

```
Private Sub Image16_Click()  
FrmDeskripsi.Label1.Caption = "Amalgam Tatum"  
FrmDeskripsi.Text1.Text = "Pembengkakan tumor pada gusi"  
FrmDeskripsi.Show vbModal  
End Sub
```

```
Private Sub Image17_Click()  
FrmDeskripsi.Label1.Caption = "Amelogenesis"  
FrmDeskripsi.Text1.Text = ""  
FrmDeskripsi.Show vbModal  
End Sub
```

```
Private Sub Image18_Click()  
FrmDeskripsi.Label1.Caption = "Chemical Burn"  
FrmDeskripsi.Text1.Text = ""  
FrmDeskripsi.Show vbModal  
End Sub
```

```
Private Sub Image19_Click()  
FrmDeskripsi.Label1.Caption = "Gingivitis Grafidum"
```

```
FrmDeskripsi.Text1.Text = "Peradangan jaringan Gingiva yang ditandai Raket  
Gingiva, warna giginya lebih merah, gigi tidak goyang dan ada pendarahan  
spontan"
```

```
FrmDeskripsi.Show vbModal  
End Sub
```

```
Private Sub Image2_Click()
```

```
FrmDeskripsi.Label1.Caption = "Epulis"
```

```
FrmDeskripsi.Text1.Text = "Pembengkakan tumor pada gusi"
```

```
FrmDeskripsi.Show vbModal  
End Sub
```

```
Private Sub Image20_Click()
```

```
FrmDeskripsi.Label1.Caption = "Kista Radikuler"
```

```
FrmDeskripsi.Text1.Text = "Kista berlapis epitel di dalam tulang akar gigi,  
disertai pulpa terinfeksi / non vital"
```

```
FrmDeskripsi.Show vbModal  
End Sub
```

```
Private Sub Image21_Click()
```

```
FrmDeskripsi.Label1.Caption = "Gigi Sehat"
```

```
FrmDeskripsi.Text1.Text = "Gigi yang terawat, yang tidak berlubang, serta tidak  
mengeluarkan gas yang bau"
```

```
FrmDeskripsi.Show vbModal  
End Sub
```

```
Private Sub Image22_Click()
```

```
FrmDeskripsi.Label1.Caption = "Gingivitis Marginalis"
```

```
FrmDeskripsi.Text1.Text = "Peradangan jaringan Gingiva yang ditandai Raket  
Gingiva, warna giginya lebih merah, gigi tidak goyang dan ada pendarahan  
spontan"
```

```
FrmDeskripsi.Show vbModal  
End Sub
```

```
Private Sub Image23_Click()
```

```
FrmDeskripsi.Label1.Caption = "Kalkulus Gingiva"
```

```
FrmDeskripsi.Text1.Text = "Suatu bentuk kematian pulpa yang mengeluarkan  
bau yang tidak enak"
```

```
FrmDeskripsi.Show vbModal  
End Sub
```

```
Private Sub Image24_Click()
```

```
FrmDeskripsi.Label1.Caption = "Trismus"
```

```
FrmDeskripsi.Text1.Text = "Suatu keadaan dimana sukar membuka mulut akibat  
kelainan TMJ"
```

```
FrmDeskripsi.Show vbModal
```