



REPUBLIK INDONESIA
KEMENTERIAN HUKUM DAN HAK ASASI MANUSIA

SURAT PENCATATAN CIPTAAN

Dalam rangka perlindungan ciptaan di bidang ilmu pengetahuan, seni dan sastra berdasarkan Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta, dengan ini menerangkan:

Nomor dan tanggal permohonan : EC00202002012, 16 Januari 2020

Pencipta

Nama : **Chandra Kesuma, Vadlya Ma'arif, , dkk**
Alamat : Jl Achmadi Rt.001 Rw.003 Desa Karanglewas Lor Kec. Purwokerto
Barat Kab. Banyumas , Purwokerto, Jawa Tengah, 53136
Kewarganegaraan : Indonesia

Pemegang Hak Cipta

Nama : **Chandra Kesuma, Vadlya Ma'arif, , dkk**
Alamat : Jl Achmadi Rt.001 Rw.003 Desa Karanglewas Lor Kec. Purwokerto
Barat Kab. Banyumas, Purwokerto, 9, 53136
Kewarganegaraan : Indonesia
Jenis Ciptaan : **Program Komputer**
Judul Ciptaan : **Aplikasi Herbal Expert System**

Tanggal dan tempat diumumkan untuk pertama kali di wilayah Indonesia atau di luar wilayah Indonesia : 15 Januari 2020, di Purwokerto

Jangka waktu perlindungan : Berlaku selama 50 (lima puluh) tahun sejak Ciptaan tersebut pertama kali dilakukan Pengumuman.

Nomor pencatatan : 000175517

adalah benar berdasarkan keterangan yang diberikan oleh Pemohon.

Surat Pencatatan Hak Cipta atau produk Hak terkait ini sesuai dengan Pasal 72 Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.



a.n. MENTERI HUKUM DAN HAK ASASI MANUSIA
DIREKTUR JENDERAL KEKAYAAN INTELEKTUAL

Dr. Freddy Harris, S.H., LL.M., ACCS.
NIP. 196611181994031001

LAMPIRAN PENCIPTA

No	Nama	Alamat
1	Chandra Kesuma	Jl Achmadi Rt.001 Rw.003 Desa Karanglewas Lor Kec. Purwokerto Barat Kab. Banyumas
2	Vadlya Ma'arif	Perum Green Kanaya No 49 Rt.05 Rw.02 Desa Karangpule Kec. Padamara Kab. Purbalingga
3	Hidayat Muhammad Nur	Jl. Pahlawan Gang VII Rt.02 Rw.04 Kelurahan Tanjung Kec. Purwokerto Selatan Kab. Banyumas
4	Elly Muningsih	Jl. Tongkol V No 17 Rt.08 Rw.02 Kelurahan Minomartani Kec. Ngaglik Kab. Sleman

LAMPIRAN PEMEGANG

No	Nama	Alamat
1	Chandra Kesuma	Jl Achmadi Rt.001 Rw.003 Desa Karanglewas Lor Kec. Purwokerto Barat Kab. Banyumas
2	Vadlya Ma'arif	Perum Green Kanaya No 49 Rt.05 Rw.02 Desa Karangpule Kec. Padamara Kab. Purbalingga
3	Hidayat Muhammad Nur	Jl. Pahlawan Gang VII Rt.02 Rw.04 Kelurahan Tanjung Kec. Purwokerto Selatan Kab. Banyumas
4	Elly Muningsih	Jl. Tongkol V No 17 Rt.08 Rw.02 Kelurahan Minomartani Kec. Ngaglik Kab. Sleman



MANUAL BOOK

APLIKASI HERBAL EXPERT SYSTEM



Chandra Kesuma
Vadlya Ma'arif
Hidayat Muhammad Nur
Elly Muningsih

DAFTAR ISI

Petunjuk Instalasi	3
Pengelolaan Program	4
Source Code	12

PETUNJUK INSTALASI

Program ini untuk Sistem Operasi 32 bit, tidak support di 64 bit

Untuk Menjalankan Program ini, saya menggunakan beberapa pendukung :

1. Instalasi Microsoft Access
2. Instalasi Microsoft Visual Studio 6.0

Pastikan database yang terdapat di micosoft Access diletakkan dalam 1 folder program

Untuk menjalankan program pilih ExpertSystem.exe

PENGELOLAAN PROGRAM

Interface Halaman Awal Program

Pada awal menjalankan program maka akan tampil animasi splash screen terlebih dahulu yang kemudian dilanjutkan dengan tampil halaman awal program.



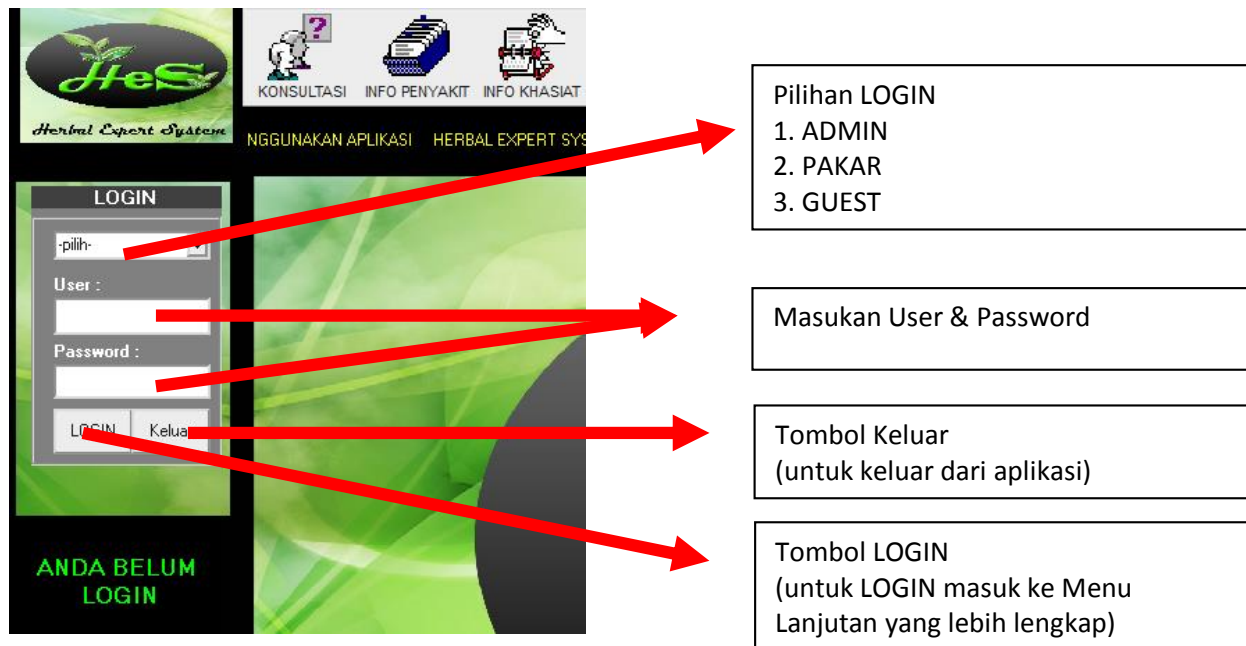
Gambar 1. Splash screen awal masuk program



Gambar 2. Halaman Awal Program

Interface Halaman Login

Halaman ini merupakan halaman login pengguna. Dalam program ini pengguna terdapat 3 pilihan, yaitu Admin, Pakar dan Guest. Admin dapat mengakses seluruh menu yang ada di dalam program ini. Sedangkan pakar hanya dapat menambah pengetahuan di dalam program ini jika dirasa perlu ditambahkan gejala atau aturan yang lain. Dan guest sendiri hanya dapat konsultasi mengenai gejala penyakit hingga cara pengobatannya saja.



Gambar 3. Halaman Login

Jika User atau password salah 3x maka program akan menutup dengan sendirinya. Dan harus menjaankan program dari awal lagi.

Interface Halaman Admin & Pakar

Berikut merupakan tampilan halaman ADMIN & PAKAR. Pada halaman ini, admin dan pakar dapat mengakses menu yang sudah disediakan, termasuk mengakses data pasien beserta riwayat pasiennya.



Gambar 4. Halaman Admin & Pakar



Di dalam Menu PANEL terdapat :

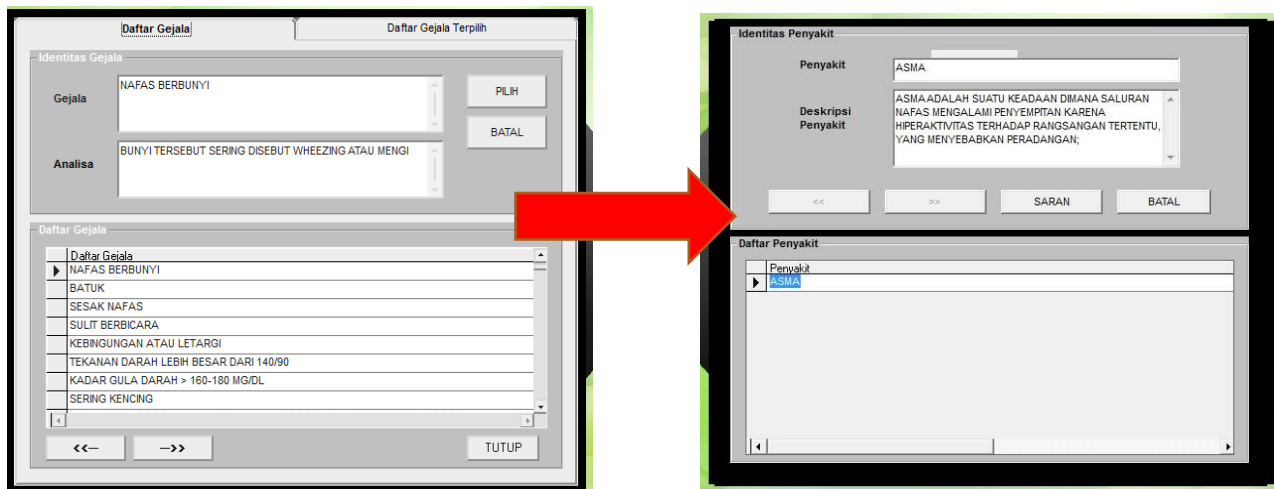
1. Konsultasi
2. Basis Pengetahuan
3. Basis Aturan
4. Informasi

Gambar 5. Panel Menu halaman Admin & Pakar

Didalam halaman Admin dan Pakar terdapat menu panel yang berisi konsultasi, basis pengetahuan, basis aturan dan informasi.

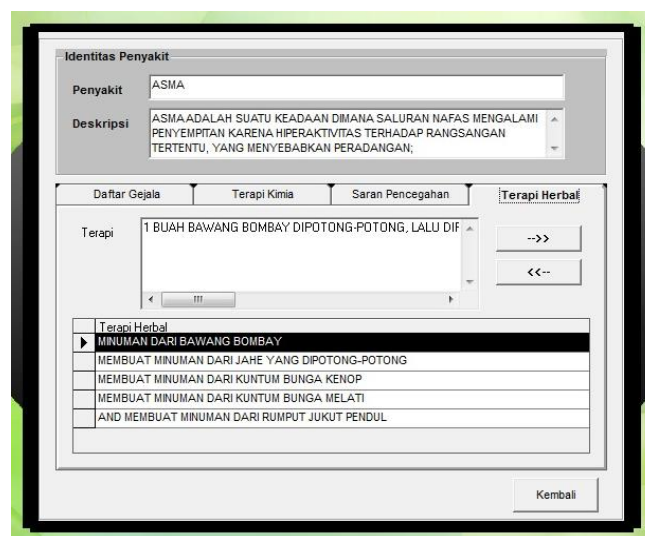
Interface Menu Konsultasi

Menu Konsultasi digunakan jika ingin berkonsultasi kesehatan berdasarkan gejala-gejala yang ditimbulkan. Selain itu juga dalam gejala yang ditampilkan terdapat keterangan analisa gejala tersebut. Nantinya terdapat pilihan gejala yang ditampilkan, setelah terpilih gejala-gejala tersebut maka akan masuk dalam tab gejala terpilih yang nantinya akan dianalisa masuk dalam kategori penyakit apa.



Gambar 6. Tampilan Menu Konsultasi

Setelah tampil penyakit terpilih, kita dapat pilih tombol saran guna mengetahui saran apa saja yang dapat dilakukan guna penyembuhan penyakit tersebut. Baik terapi secara kimia (obat-obatan) atau terapi secara herbal serta bagaimana saran pencegahan yang dapat dilakukan.

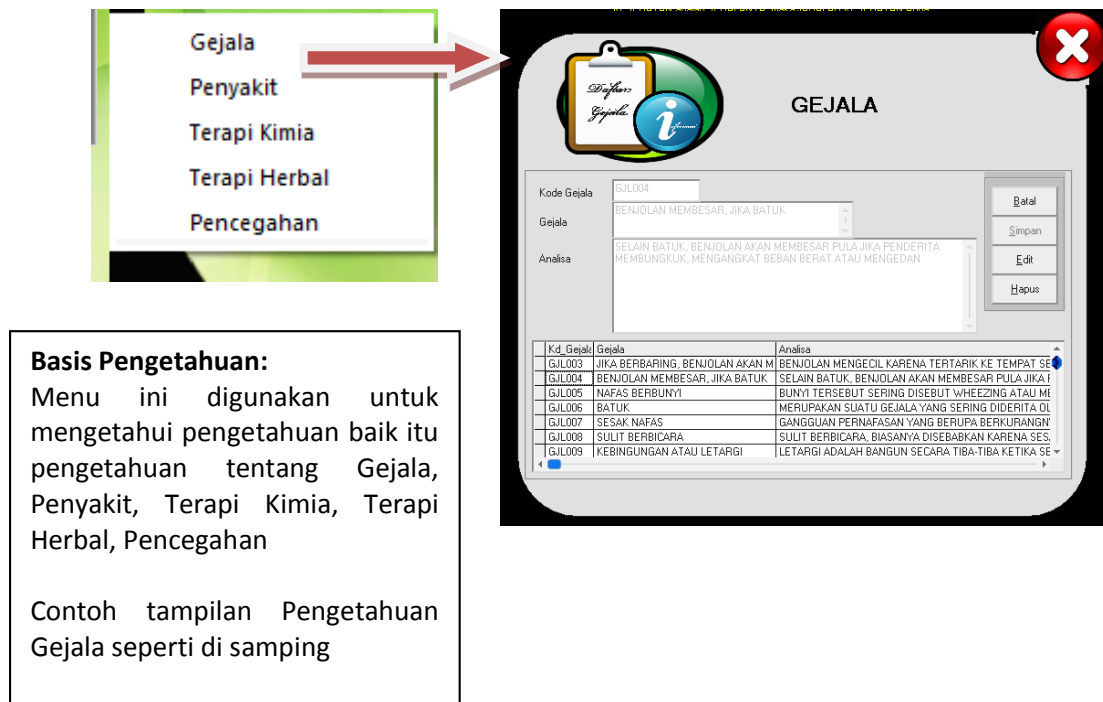


Gambar 7. Tampilan saran terapi herbal

Interface Menu Basis Pengetahuan

Menu basis pengetahuan terdapat pilihan sub menu berupa gejala, penyakit, terapi kimia, terapi herbal, pencegahan. Halaman ini digunakan untuk menambahkan apabila terdapat gejala baru, penyakit baru, terapi kimiaterapi herbal dan pencegahan yang baru dan akan ditambahkan.

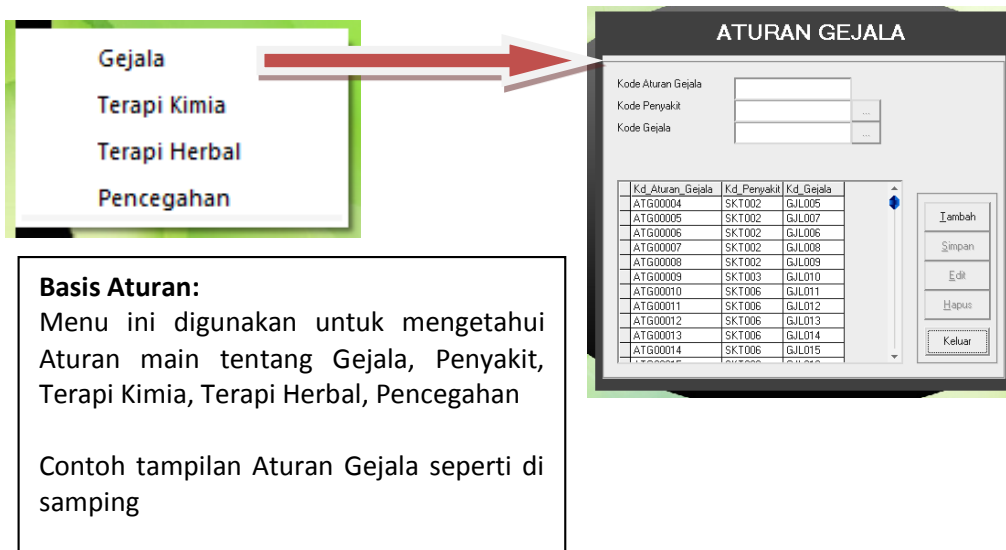
Tidak hanya menambahkan, pada halaman ini juga dapat mengedit apabila ada kesalahan dalam penyimpanan nama gejala, penyakit, terapi kimia, terapi herbal dan pencegahan.



Gambar 8. Tampilan menu basis pengetahuan

Interface Menu Basis Aturan

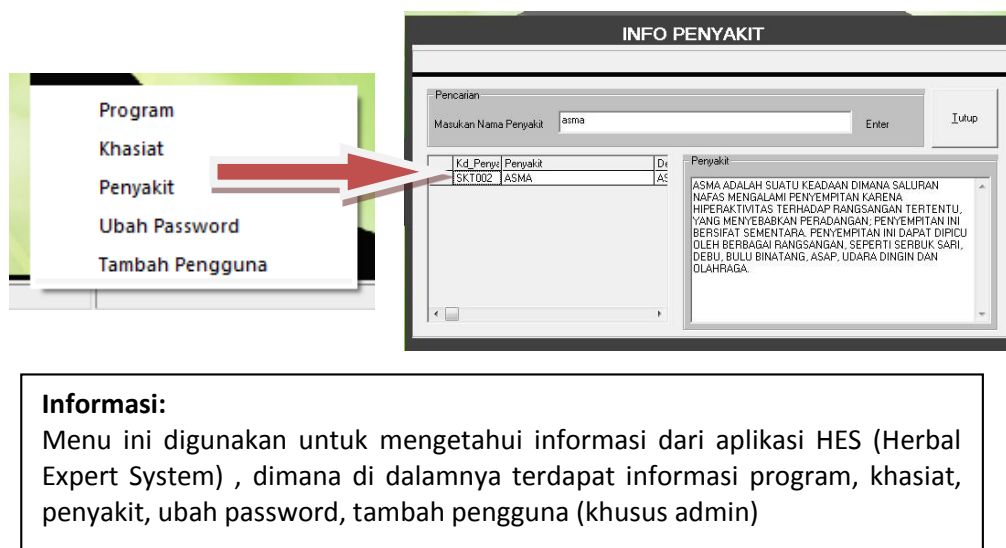
Pada Menu Basis Aturan terdapat pilihan sub menu berupa gejala, terapi kimia, terapi heral, dan pencegahan. Aturan disini digunakn untuk memilih gejala/ terapi an encegahan apa saja ang masuk dalam penyakit yang diplih. Pada menu ini diusahakan pakar yang mengisi supaya sesuai dengan kriteria penyakit tersebut.



Gambar 9. Tampilan Menu Basis Aturan

Interface Menu Informasi

Menu informasi menampilkan informasi berupa program, khasiat dari obat herbal, informasi penyakit, ubah password serta menambah pengguna.



Gambar 10. Tampilan Informasi

Interface Halaman Pasien

Halaman Pasien berupa data konsultasi pasien yang berisi gejala-gejala yang sudah direkam serta dimasukkan kedalam data riwayat penyakit pasien.

DATA PASIEN

ID Pasien: 21/12/2012 Keluar

Nama: Jenis Kelamin: ☐ L ☐ P

Tgl Lahir: 27/05/2012 Alamat:

No Telp: Usia: tahun

Pencarian: Cari Berdasarkan: pilih- Tambah Simpan Edit Hapus

idpasien	nm_pasien	tgl_lahir	alamat	jenis_kel	usia	notelp
20120002	inda	11/12/1991	Purwokerto	P	20	434
20120003	dea	2/21/1994	Cilacap	P	18	566565
20120004	hendi	2/22/1927	Berkoh, Pun	L	85	56463636
20120005	dendi	10/5/1994	purwokerto	L	18	0987876767
20120006	dedi	11/16/1988	Sokaraja, B.	L	24	676767

RIWAYAT PENYAKIT

Id Riwayat: RW00001 KONSULTASI

Kode Pasien: 20120003 Kode Penyakit: SKT002

Nama: dea Nama Penyakit: ASMA

Tgl Cek: 02/11/2012

Keterangan: Gejala Asma Ringan

Pencarian: Cari Berdasarkan Nama Pasien: Kode Pasien:

id_riwayat	idpasien	tgl_cek	kd_penyakit	ket
Rw00001	20120003	11/23/2012	SKT002	Gejala Asma Ringan
Rw00002	20120002	11/23/2012	SKT005	Penyakit baru diprediksi
Rw00003	20120002	11/23/2012	SKT002	Asma Lanjutan
Rw00004	20120006	11/23/2012	SKT002	Asma Lanjutan, dosis ditambahkan

Batal Simpan Edit Hapus Keluar

PASIEN:
Menu ini digunakan untuk konsultasi pasien melalui DATA PASIEN dan mengetahui riwayat sakit pasien melalui menu RIWAYAT

Gambar 11. Tampilan halaman data pasien & riwayat pasien

Interface Menu Header

Menu header berada di bagian atas program, fungsinya untuk memberikan kemudahan pilihan menu yang sering digunakan sehingga tidak perlu masuk kedalam beberapa sub menu yang ada di menu panel.



Menu Header:

Digunakan untuk akses tombol cepat baik untuk KONSULTASI, INFO PENYAKIT, INFO KHASIAT, ABOUT IT, MANUALS, dan Tombol KELUAR tanpa harus Login terlebih dahulu

Gambar 12. Tampilan Menu header

Source Code

Source Code Login

```
Private Sub cmdlogin_Click()
On Error Resume Next
If cmbpilih.Text <> "GUEST" Then
kesempatan = kesempatan + 1
adologin.RecordSource = "select * from t_user where nama='" & tuser & "' and pass='" & tpass & "' and status='" &
cmbpilih.Text & "'"
adologin.Refresh
With adologin.Recordset
If Not .EOF Then
If !Status = "ADMIN" Then

Call admin
frame_pasien.Visible = True
ElseIf !Status = "PAKAR" Then
Call pakar
Else
End If

cmbpilih.Text = "-pilih-"
tuser = ""
tpass = ""

cmbpilih.Enabled = False
tuser.Enabled = False
tpass.Enabled = False
'=====
'untuk animasi buka
Dim cepat As Long
cepat = 100
If cmdlogin.Caption = "LOGIN" Then
While PicLeft.Height < 9795
DoEvents
PicLeft.Height = PicLeft.Height + cepat
Wend

End If
cmdlogout.Visible = True
cmdlogin.Visible = False
'=====
Else

MsgBox "Maaf terjadi kesalahan! Silahkan Ulangi", 0 + vbCritical, "...: Informasi :..."
If kesempatan < 3 Then
cmbpilih.Text = "-pilih-"
tuser = ""
tpass = ""
cmbpilih.SetFocus
Else
```

```

        MsgBox "Maaf Kesempatan ke-3 GAGAL, silahkan restart aplikasi / hubungi ADMIN", 0 + vbCritical, "...:
Informasi :..."
        End
    End If

End If

End With
Else
Call guest
End If
End Sub

Private Sub cmdlogout_Click()
Dim cepat As Long
    cepat = 100
If cmdlogout.Caption = "LOG OUT" Then
    cmdlogin.Visible = True
    cmdlogout.Visible = False
    cmdinfo.Enabled = True
    cmdpengetahuan.Enabled = True
    cmdaturan.Enabled = True

    While PicLeft.Height > 4000
        DoEvents
        PicLeft.Height = PicLeft.Height - cepat
    Wend
    cmbpilih.Enabled = True
    frame_pasien.Visible = False
End If

End Sub

```

Source Code Halaman Admin & Pakar

```

Dim kesempatan As Integer
Private Sub cmbpilih_Click()
If cmbpilih.Text = "GUEST" Then
tuser.Enabled = False
tpass.Enabled = False
cmdlogin.SetFocus
Else
tuser.Enabled = True
tpass.Enabled = True
tuser.SetFocus
End If
End Sub

Private Sub cmdaturan_Click()
'PopupMenu maturan.maturan, , PicLeft.Width, PicLeft.Height - cmdaturan.Top
PopupMenu maturan.maturan, , PicLeft.Width, Me.Height - (Frame1.Top)
End Sub

```

```

Private Sub cmdbuka_Click()
Dim cepat As Long
    cepat = 100

If cmdbuka.Caption = "<<" Then
Picture1.BackColor = &H404040

    cmdbuka.Caption = ">>"
    While Picture1.Width < 5000
        DoEvents
        Picture1.Width = Picture1.Width + cepat
    Wend

Else
    cmdbuka.Caption = "<<"
    While Picture1.Width > 600
        DoEvents
        Picture1.Width = Picture1.Width - cepat
    Wend
Picture1.BackColor = vbBlack
End If
End Sub

Private Sub cmddata_Click()
frm_pasien.Show
End Sub

Private Sub cmdinfo_Click()
PopupMenu minformasi.minformasi, , PicLeft.Width, Me.Height - cmdinfo.Top
If (menuutama.StatusBar1.Panels(2).Text = "GUEST") Or (menuutama.StatusBar1.Panels(2).Text = "PAKAR")
Then
    minformasi.smubah.Enabled = False
    minformasi.smpengguna.Enabled = False
Else
End If
End Sub

Private Sub cmdkeluar_Click()
If cmdlogout.Visible = True Then
MsgBox "Silahkan Log Out dahulu", vbInformation + vbOKOnly, "informasi"
Else
X = MsgBox("Yakin keluar program?", 4 + 32, "Pertanyaan")
    If X = 6 Then
        End
    End If
End If
End Sub

Private Sub cmdkonsultasi_Click()
'fkonsultasi.Show
FAKonsultasi.Show
End Sub

Private Sub cmdlogin_Click()
On Error Resume Next

```

```

If cmbpilih.Text <> "GUEST" Then
kesempatan = kesempatan + 1
adologin.RecordSource = "select * from t_user where nama='" & tuser & "' and pass='" & tpass & "' and status='" &
cmbpilih.Text & "'"
adologin.Refresh
With adologin.Recordset
    If Not .EOF Then
        If !Status = "ADMIN" Then

            Call admin
            frame_pasien.Visible = True
        ElseIf !Status = "PAKAR" Then
            Call pakar
        Else
        End If

        cmbpilih.Text = "-pilih-"
        tuser = ""
        tpass = ""

        cmbpilih.Enabled = False
        tuser.Enabled = False
        tpass.Enabled = False
'=====
        'untuk animasi buka
        Dim cepat As Long
        cepat = 100
        If cmdlogin.Caption = "LOGIN" Then
            While PicLeft.Height < 9795
                DoEvents
                PicLeft.Height = PicLeft.Height + cepat
            Wend

            End If
            cmdlogout.Visible = True
            cmdlogin.Visible = False
'=====
        Else

            MsgBox "Maaf terjadi kesalahan! Silahkan Ulangi", 0 + vbCritical, "...: Informasi :..."
            If kesempatan < 3 Then
                cmbpilih.Text = "-pilih-"
                tuser = ""
                tpass = ""
                cmbpilih.SetFocus
            Else
                MsgBox "Maaf Kesempatan ke-3 GAGAL, silahkan restart aplikasi / hubungi ADMIN", 0 + vbCritical, "...:
Informasi :..."
            End
            End If

        End If
    End With

```

```

Else
Call guest
End If
End Sub

Private Sub cmdlogout_Click()
Dim cepat As Long
    cepat = 100
If cmdlogout.Caption = "LOG OUT" Then
    cmdlogin.Visible = True
    cmdlogout.Visible = False
    cmdinfo.Enabled = True
    cmdpengetahuan.Enabled = True
    cmdaturan.Enabled = True

    While PicLeft.Height > 4000
        DoEvents
        PicLeft.Height = PicLeft.Height - cepat
    Wend
    cmbpilih.Enabled = True
    frame_pasien.Visible = False
End If
End Sub

Private Sub cmdpengetahuan_Click()
'PopupMenu mpengetahuan.mpengetahuan, , PicLeft.Width, Me.Height - cmdpengetahuan.Top
PopupMenu mpengetahuan.mpengetahuan, , PicLeft.Width, Me.Height - (Frame1.Top)
End Sub

Private Sub cmdriwayat_Click()
friwayat.Show
End Sub

Private Sub Form_Load()
cmbpilih.AddItem "ADMIN"
cmbpilih.AddItem "PAKAR"
cmbpilih.AddItem "GUEST"
Call dbase_pengguna
Calendar1.Today
End Sub

Private Sub Image3_Click()
friwayat.Show
End Sub

Private Sub frame_pasien_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
imriwayat.Picture = PictureClip1.Picture
impasien.Picture = PictureClip3.Picture
End Sub

Private Sub Image1_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
imriwayat.Picture = PictureClip1.Picture
impasien.Picture = PictureClip3.Picture
End Sub

```

```

Private Sub impasien_Click()
frm_pasien.Show
End Sub

Private Sub impasien_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
impasien.Picture = PictureClip4.Picture
End Sub

Private Sub imriwayat_Click()
friwayat.Show
End Sub

Private Sub imriwayat_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
imriwayat.Picture = PictureClip2.Picture
End Sub

Private Sub Picture1_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
imriwayat.Picture = PictureClip1.Picture
impasien.Picture = PictureClip3.Picture
End Sub

Private Sub Timer1_Timer()
lbltgl.Caption = Time()
End Sub

Private Sub dbase_pengguna()
On Error Resume Next
adologin.ConnectionString = "Provider=Microsoft.Jet.OLEDB.4.0;" & _
"Persist Security Info=False;Data Source=" & App.Path & "\expert_system.mdb"
adologin.RecordSource = "select * from t_user"
adologin.Refresh
End Sub

Private Sub admin()
menuutama.StatusBar1.Panels(1).Text = "LOGIN : ADMIN"
menuutama.StatusBar1.Panels(2).Text = menuutama.tuser.Text
cmddata.Visible = True
cmdriwayat.Visible = True
frame_pasien.Visible = True
End Sub

Private Sub pakar()
menuutama.StatusBar1.Panels(1).Text = "LOGIN : PAKAR"
menuutama.StatusBar1.Panels(2).Text = menuutama.tuser.Text
minformasi.smubah.Enabled = False
minformasi.smpengguna.Enabled = False
'menuutama.cmdriwayat.Visible = False
'menuutama.cmddata.Visible = False

menuutama.StatusBar1.Panels(1).Text = "LOGIN : PAKAR"
menuutama.StatusBar1.Panels(2).Text = menuutama.tuser.Text
End Sub

Private Sub guest()
'Dim cepat As Long
'    cepat = 1000

```

```

' If cmdlogin.Caption = "LOGIN" Then
'     While PicLeft.Height < 7100
'         DoEvents
'         PicLeft.Height = PicLeft.Height + cepat
'     Wend
'
' End If
' cmdlogout.Visible = True
' cmdlogin.Visible = False

'untuk animasi buka
Dim cepat As Long
cepat = 100
If cmdlogin.Caption = "LOGIN" Then
    While PicLeft.Height < 9795
        DoEvents
        PicLeft.Height = PicLeft.Height + cepat
    Wend

    End If
    cmdlogout.Visible = True
    cmdlogin.Visible = False
'=====

minformasi.smubah.Enabled = False
minformasi.smpengguna.Enabled = False
'menuutama.cmdriwayat.Visible = False
'menuutama.cmddata.Visible = False
cmdaturan.Enabled = False
cmdpengetahuan.Enabled = False
mpengetahuan.Enabled = False
menuutama.StatusBar1.Panels(2).Text = "GUEST"
End Sub

Private Sub timerrt2_Timer()
If rt2.Caption = "ANDA BELUM LOGIN" Then
rt2.Caption = ""
Else
rt2.Caption = "ANDA BELUM LOGIN"
End If
End Sub

Private Sub timerrunning_Timer()
Dim s As String
s = rt.Caption
If rt.Caption <> "" Then
s = Mid(s, 2, Len(s) - 1) & Left(s, 1)
End If
rt.Caption = s
End Sub

Private Sub Toolbar1_ButtonClick(ByVal Button As MSComctlLib.Button)
If Button.Index = 6 Then
    If MsgBox("Yakin akan Keluar ?", vbYesNo + vbExclamation, "Konfirmasi") = vbYes Then
        End
    End If
End If

```

```

End If
If Button.Index = 1 Then FAKonsultasi.Show
If Button.Index = 2 Then finfo_penyakit.Show
If Button.Index = 3 Then fkhasiat.Show
If Button.Index = 4 Then fprogram.Show
If Button.Index = 5 Then fmanual.Show
End Sub

Private Sub tpass_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then
    If cmdlogin.Visible = True Then
        cmdlogin.SetFocus
    Else
        MsgBox " Silahkan LOG OUT dahulu ", vbInformation, "INFORMASI"
    End If
End If
End Sub

Private Sub tuser_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then
    tpass.SetFocus
End If
End Sub

```

Source Code Menu Konsultasi

```

Private Daftar_Gejala_Terpilih As String
Private Daftar_Penyakit_Terpilih As String
Private ListIndeks As Integer
Private NewList As String
Private NewListIndeks As String
Private Nol As String
Private WhereClausagejala As String
Private WhereClausapenyakit As String

Private Sub DaftarGejalaTerpilih()
    If ST1List.ListCount > 0 Then
        j = 0
        Daftar_Gejala_Terpilih = Mid(ST1List.List(j), 1, 6)
        For j = 1 To (ST1List.ListCount - 1)
            Daftar_Gejala_Terpilih = Daftar_Gejala_Terpilih + "" + "," + "" + Mid(ST1List.List(j), 1, 6)
        Next
    End If
End Sub

Private Sub DaftarPenyakitKonsultasi()
    Jml_Penyakit = Round((Len(Daftar_Penyakit_Terpilih) + 3) / 9)
    Jml_Gejala = Round((Len(Daftar_Gejala_Terpilih) + 3) / 9)
    For j = 1 To Jml_Penyakit
        If j = 1 Then
            p = j
        Else

```

```

        p = ((j - 1) * 9) + 1
    End If
    For k = 1 To Jml_Gejala
        If k = 1 Then
            q = k
        Else
            q = ((k - 1) * 9) + 1
        End If
        AdoConnStr AdoProses
        With AdoProses
            .CommandType = adCmdText
            .RecordSource = "SELECT * FROM Aturan_Gejala WHERE Kd_Penyakit = " &
Mid(Daftar_Penyakit_Terpilih, p, 6) & " AND Kd_Gejala=" & Mid(Daftar_Gejala_Terpilih, q, 6) & ""
            .Refresh
            If .Recordset.RecordCount = 0 Then
                Pilihan_Penyakit = False
                Exit For
            Else
                Pilihan_Penyakit = True
            End If
        End With
    Next
    If Pilihan_Penyakit = True Then
        If WhereClausakonsultasi = "" Then
            WhereClausakonsultasi = AdoProses.Recordset!Kd_Penyakit
        Else
            WhereClausakonsultasi = WhereClausakonsultasi + "" + "," + "" + AdoProses.Recordset!Kd_Penyakit
        End If
    End If
Next
End Sub

Private Sub DaftarPenyakitTerpilih()
    AdoConnStr AdoProses
    With AdoProses
        .CommandType = adCmdText
        .RecordSource = "SELECT DISTINCT(Kd_Penyakit) AS TKd_Penyakit FROM Aturan_Gejala WHERE
Kd_Gejala IN(" & Daftar_Gejala_Terpilih & ")"
        .Refresh
        If .Recordset.RecordCount > 0 Then
            For j = 1 To .Recordset.RecordCount
                If Daftar_Penyakit_Terpilih = "" Then
                    Daftar_Penyakit_Terpilih = .Recordset!tkd_penyakit
                Else
                    Daftar_Penyakit_Terpilih = Daftar_Penyakit_Terpilih + "" + "," + "" + .Recordset!tkd_penyakit
                End If
                .Recordset.MoveNext
            Next
        End If
        .ConnectionString = ""
    End With
End Sub

Private Sub btnKonsultasi_Click()
    With ST0Ado.Recordset
        If .RecordCount > 1 Then

```

```

        .MoveNext
        If .EOF Then .MoveFirst
        ST0IsiGejala
        ST0CekAdoPointer
    End If
End With
End Sub

Private Sub btntutupp_Click()
    Unload Me
    LoadedForm = ""
End Sub

Private Sub Form_Activate()
    'MDIUtama.Label3.Caption = "Form Konsultasi"
    LoadedForm = Me.Name
End Sub

Private Sub Form_Load()
    Me.Move 50, 50, Me.ScaleWidth, Me.ScaleHeight
    ListIndeks = 0
    AdoConnStr ST0Ado
    ST0Ado.CommandType = adCmdText
    ST0Ado.RecordSource = "SELECT DISTINCT(Aturan_Gejala.Kd_Gejala) AS TKd_Gejala, Gejala.Gejala,
Gejala.Analisa FROM Gejala, Aturan_Gejala WHERE Gejala.Kd_Gejala = Aturan_Gejala.Kd_Gejala"
    ST0Ado.Refresh
    If ST0Ado.Recordset.RecordCount > 0 Then
        ST0IsiGejala
        ST0CekAdoPointer
        ST0DataGrid.Refresh
        AdoConnStr ST1Ado
        aktif btnPilih11, btnBatal11
        'If ST0Ado.Recordset.RecordCount > 1 Then
        '    Aktif btNext1
        'End If
        SSTab1.Tab = 0
    Else
        'data masih kosong
        X = MsgBox("Data basis aturan gejala masih kosong! ", vbExclamation + vbOKOnly, "Pesan")
    End If
End Sub

Private Sub Form_Unload(Cancel As Integer)
    'MDIUtama.Label3.Caption = "Menu Utama"
    ST0Ado.ConnectionString = ""
    ST1Ado.ConnectionString = ""
    AdoProses.ConnectionString = ""
    AdoProses1.ConnectionString = ""
End Sub

Private Sub ST0IsiGejala()
    If ST0Ado.Recordset.RecordCount > 0 Then
        With ST0Ado.Recordset
            ST0TGejala.Text = !gejala
            ST0TAnalisa.Text = !Analisa
        End With
    End Sub

```

```

    End If
End Sub

Private Sub btBack1_Click()
    With ST0Ado.Recordset
        If .RecordCount > 1 Then
            .MovePrevious
            If .BOF Then .MoveLast
            ST0IsiGejala
            ST0CekAdoPointer
        End If
    End With
End Sub

Private Sub btnBatal11_Click()
On Error Resume Next
    SSTab1.Tab = 1
End Sub

Private Sub btNext1_Click()
    With ST0Ado.Recordset
        If .RecordCount > 1 Then
            .MoveNext
            If .EOF Then .MoveFirst
            ST0IsiGejala
            ST0CekAdoPointer
        End If
    End With
End Sub

Private Sub btnPilih11_Click()
On Error Resume Next
    If ST0Ado.Recordset.RecordCount = 1 Then TidakAktif btnPilih22
    Blank ST0TGejala, ST0TAnalisa
    tcari = ""
    With ST1Ado
        .CommandType = adCmdText
        .RecordSource = "SELECT Aturan_Gejala.Kd_Gejala, Gejala.Gejala AS TGejala, Gejala.Analisa FROM
Gejala, Aturan_Gejala WHERE Gejala.Kd_Gejala = Aturan_Gejala.Kd_Gejala AND Aturan_Gejala.Kd_Gejala= '"
& ST0Ado.Recordset!tkd_gejala & "'"
        .Refresh
    End With
    ST1IsiGejala
    ST1List.AddItem NewList
    SSTab1.Tab = 1
    If ST1List.ListCount > 0 Then ListIndeks = ST1List.ListCount - 1
    ST1List.ListIndex = ListIndeks
    ST1CekListPointer
    aktif btnBatal22
    ST1List.SetFocus
    'siapkan daftar gejala terpilih
    Daftar_Gejala_Terpilih = ""
    DaftarGejalaTerpilih
    'siapkan daftar penyakit terpilih
    Daftar_Penyakit_Terpilih = ""

```

[illegible]

[illegible]

```

        ST0DataGrid.Refresh
    End If
    ST1CekListPointer
End With
End Sub

Private Sub btNext_Click()
    With ST1List
        If .ListCount > 1 Then
            If .ListIndex + 1 <> .ListCount Then
                .ListIndex = .ListIndex + 1
            Else
                .ListIndex = 0
            End If
            'If .ListIndex = .ListCount Then .ListIndex = 0
            ST1IsiGejala
            ST1CekListPointer
        End If
    End With
End Sub

Private Sub ST1BNext_Click()
End Sub

Private Sub btnProses2_Click()           ':P
    If ST1List.ListCount > 0 Then
        WhereClausGejala = ""
        j = 0
        If ST1Ado.Recordset.RecordCount > 0 Then
            WhereClausGejala = WhereClausGejala + Left(ST1List.List(j), 6)
            For j = 1 To (ST1List.ListCount - 1)
                WhereClausGejala = WhereClausGejala + "" + "," + "" + Left(ST1List.List(j), 6)
            Next
        End If
        AdoConnStr AdoProses1
        'Sorting WCG
        With AdoProses1
            .CommandType = adCmdText
            .RecordSource = "SELECT DISTINCT(Kd_Gejala) As TKd_Gejala FROM Aturan_Gejala WHERE Kd_Penyakit IN (" & WhereClausapenyakit & ") AND Kd_Gejala IN (" & WhereClausGejala & ")"
            .Refresh
            If AdoProses1.Recordset.RecordCount > 0 Then
                WhereClausGejala = ""
                WhereClausGejala = AdoProses1.Recordset!tkd_gejala
                For k = 2 To AdoProses1.Recordset.RecordCount
                    AdoProses1.Recordset.MoveNext
                    WhereClausGejala = WhereClausGejala + "" + "," + "" + AdoProses1.Recordset!tkd_gejala
                Next
            End If
            .ConnectionString = ""
        End With
        AdoConnStr AdoProses
        With AdoProses
            .CommandType = adCmdText
            If WhereClausapenyakit = "" Then WhereClausapenyakit = Mid(ST1List.List(0), 1, 6)
        End With
    End If
End Sub

```

```

        .RecordSource = "SELECT DISTINCT(Aturan_Gejala.Kd_Penyakit) AS TKd_Penyakit FROM Gejala,
        Aturan_Gejala WHERE Aturan_Gejala.Kd_Gejala = Aturan_Gejala.Kd_Gejala AND Aturan_Gejala.Kd_Penyakit
        IN (" & WhereClausapenyakit & ") AND Aturan_Gejala.Kd_Gejala IN (" & WhereClausagejala & ")
        .Refresh
        If .Recordset.RecordCount > 0 Then
            AdoConnStr AdoProses1
            AdoProses1.CommandType = adCmdText
            For j = 1 To .Recordset.RecordCount
                AdoProses1.RecordSource = "SELECT * FROM Aturan_Gejala WHERE Kd_Penyakit=" &
                .Recordset!tkd_penyakit & ""
                AdoProses1.Refresh
                If AdoProses1.Recordset.RecordCount > 0 Then
                    Daftar_Gejala = ""
                    For k = 1 To AdoProses1.Recordset.RecordCount
                        If Daftar_Gejala = "" Then
                            Daftar_Gejala = AdoProses1.Recordset!Kd_Gejala
                        Else
                            Daftar_Gejala = Daftar_Gejala + "" + "," + "" + AdoProses1.Recordset!Kd_Gejala
                            AdoProses1.Recordset.MoveNext
                        End If
                        If Daftar_Gejala = WhereClausagejala Then
                            If WhereClausakonsultasi = "" Then
                                WhereClausakonsultasi = AdoProses1.Recordset!Kd_Penyakit
                            Else
                                WhereClausakonsultasi = WhereClausakonsultasi + "" + "," + "" +
                                AdoProses1.Recordset!Kd_Penyakit
                            End If
                        End If
                    Next
                End If
                AdoProses1.Recordset.MoveNext
            Next
            AdoProses1.Refresh
        End If
        End With
        WhereClausapenyakit = ""
        FAHPPenyakit.Show
    Else
        Call Form_Load
    End If
End Sub

Private Sub btnPilih22_Click()
    SSTab1.Tab = 0
    ST0DataGrid.Refresh
    ST0IsiGejala
End Sub

Private Sub btnTutup2_Click()
    Unload Me
    LoadedForm = ""
End Sub

Private Sub ST1CekListPointer()
    With ST1List
        If .ListCount > 1 Then

```

```

        aktif btNext, btPrev, btnProses2
    Else
        If .ListCount = 1 Then aktif btnProses2
        TidakAktif btNext, btPrev
    End If
End With
End Sub

Private Sub ST1IsiGejala()
    With ST1Ado.Recordset
        If .RecordCount > 0 Then
            ST1TGejala.Text = !tgejala
            ST1TAnalisa.Text = !Analisa
            NewList = !Kd_Gejala + " - " + !tgejala
            'NewList = !TGejala
        End If
    End With
End Sub

Private Sub ST1List_Click()
    'Label1.Caption = ListIndeks
    ListIndeks = ST1List.ListIndex
    With ST1Ado
        .RecordSource = "SELECT Kd_Gejala, Gejala AS TGejala, Analisa FROM Gejala WHERE Kd_Gejala= '" &
Left(ST1List.List(ST1List.ListIndex), 6) & "'"
        .Refresh
    End With
    ST1IsiGejala
    ST1CekListPointer
End Sub

```

Source Code Basis pengetahuan

```

Sub grid()
    gridgejala.Cols = 4
    gridgejala.ColWidth(0) = 200
    gridgejala.ColWidth(1) = 800
    gridgejala.ColWidth(2) = 3000
    gridgejala.ColWidth(3) = 5000
End Sub

Private Sub t_gejala()
    On Error Resume Next
    adogejala.ConnectionString = "Provider=Microsoft.Jet.OLEDB.4.0;" & _
    "Persist Security Info=False;Data Source=" & App.Path & "\expert_system.mdb"
    adogejala.RecordSource = "select * from gejala"
    adogejala.Refresh
End Sub

Private Sub semula()
    adogejala.RecordSource = "select * from gejala"

```

```

adogejala.Refresh
End Sub

Private Sub AutoNumber()
On Error Resume Next

Dim Urutan As String * 6
Dim Hitung As Long
With adogejala.Recordset
If .EOF Then
Urutan = ("GJL") + "001"
tkd_gejala = Urutan
Else
.MoveLast
Hitung = Right(!Kd_Gejala, 3) + 1
Urutan = ("GJL") + Right("900" & Hitung, 3)
End If
tkd_gejala = Urutan
End With
End Sub

Private Sub cmdedit_Click()
aktif
cmdedit.Enabled = False
cmdtambah.Caption = "&Batal"
cmdsimpan.Enabled = True
End Sub

Private Sub cmdhapus_Click()
p = MsgBox("Benar Kode = " + tkd_gejala + " mau dihapus?", 32 + 4, "Tanya")
If p = vbYes Then
    adogejala.Recordset.Delete
    t_gejala
    semula
    gridgejala.Refresh
    kosong
    cmdedit.Enabled = False
    cmdhapus.Enabled = False
    cmdtambah.Caption = "&Tambah"
Else
    t_gejala
    semula

End If
End Sub

Private Sub cmdkeluar_Click()
End Sub

Private Sub cmdsimpan_Click()
adogejala.Recordset.Find "kd_gejala=" & tkd_gejala & ""

With adogejala.Recordset
If Not adogejala.Recordset.EOF Then
!Kd_Gejala = tkd_gejala.Text
!gejala = tgejala.Text

```

```

!Analisa = tanalisa.Text
.Update
Else
.AddNew
!Kd_Gejala = tkd_gejala.Text
!gejala = tgejala.Text
!Analisa = tanalisa.Text
.Update
End If

cmdsimpan.Enabled = False
cmdedit.Enabled = False
cmdhapus.Enabled = False
cmdtambah.Caption = "&Tambah"
Call tdk_aktif

End With
Call semula
Call t_gejala
gridgejala.Refresh

On Error GoTo 0
'cmdbatal_Click
End Sub

Private Sub cmdtambah_Click()
If cmdtambah.Caption = "&Tambah" Then
    kosong
    aktif
    AutoNumber
    cmdsimpan.Enabled = True
    cmdtambah.Caption = "&Batal"
    cmdedit.Enabled = False
    cmdhapus.Enabled = False
    tgejala.SetFocus
Else
    kosong
    tdk_aktif
    cmdsimpan.Enabled = False
    cmdtambah.Caption = "&Tambah"
    cmdedit.Enabled = False
    cmdhapus.Enabled = False
End If
End Sub

Sub kosong()
tkd_gejala = ""
tgejala = ""
tanalisa = ""
End Sub

Private Sub Form_Activate()
Call grid
End Sub

Sub aktif()
tgejala.Enabled = True
tanalisa.Enabled = True
End Sub

```

```

Sub tdk_aktif()
tgejala.Enabled = False
tanalisa.Enabled = False
End Sub

Sub tampil()
With adogejala.Recordset
tkd_gejala.Text = !Kd_Gejala
tgejala.Text = !gejala
tanalisa.Text = !Analisa
End With
End Sub

Private Sub Form_Load()
Call t_gejala
Call tdk_aktif

cmdsimpan.Enabled = False
cmdedit.Enabled = False
cmdhapus.Enabled = False
End Sub

Private Sub Form_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
imkeluar.Picture = PictureClip1.Picture
End Sub

Private Sub gridgejala_DblClick()
adogejala.Recordset.MoveFirst
adogejala.Recordset.Find "kd_gejala=" & gridgejala.Text & ""
If Not adogejala.Recordset.EOF Then
Call tampil
cmdedit.Enabled = True
cmdhapus.Enabled = True
cmdtambah.Caption = "&Batal"
Else
MsgBox "Maaf data tidak ditemukan", , "info"
End If
End Sub

Private Sub imkeluar_Click()
Dim cepat As Long
cepat = 1000
While Top + Height < Screen.Height
DoEvents
Top = Top + cepat
Wend
Unload Me

End Sub

Private Sub imkeluar_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
imkeluar.Picture = PictureClip2.Picture

End Sub

```

Source Code Basis aturan

```
Sub tampil()
With ado_aturan_gejala.Recordset
tkd_aturan.Text = !kd_aturan_gejala
tkd_penyakit.Text = !Kd_Penyakit
tkd_gejala.Text = !Kd_Gejala
End With
End Sub

Private Sub cmdcari_Click()
kode = InputBox("Masukkan Kode Aturan : ", "Pencarian Kode Aturan Gejala", "Misal : ATG00001", kode)
kode = Right(kode, 8)
ado_aturan_gejala.RecordSource = "select * from Aturan_Gejala where Kd_aturan_gejala='" + kode + "'"
ado_aturan_gejala.Refresh
If Not ado_aturan_gejala.Recordset.EOF Then
    Call tampil
    cmdedit.Enabled = True
    cmdhapus.Enabled = True
Else
    MsgBox "Maaf data tidak ditemukan", 0 + 64, "...: Informasi :..."
End If

semula
End Sub

Private Sub cmdedit_Click()
aktif
cmdedit.Enabled = False
cmdtambah.Caption = "&Batal"
cmdsimpan.Enabled = True
End Sub

Private Sub cmdgejala_Click()
frame_gejala.Visible = True
tcari_gejala.SetFocus
End Sub

Private Sub cmdhapus_Click()
p = MsgBox("Benar Kode Aturan = " + tkd_aturan + " mau dihapus?", 32 + 4, "Tanya")
If p = vbYes Then
    ado_aturan_gejala.Recordset.Delete
    t_aturan_gejala
    semula
    grid1.Refresh
    kosong
    cmdedit.Enabled = False
    cmdhapus.Enabled = False
    cmdtambah.Caption = "&Tambah"
Else
    t_aturan_gejala
    semula

End If
End Sub
```

```

Private Sub cmdkeluar_Click()
    Dim cepat As Long
    cepat = 1000
    While Top + Height < Screen.Height
        DoEvents
        Top = Top + cepat
    Wend
    Unload Me
End Sub

Private Sub t_aturan_gejala()
On Error Resume Next
ado_aturan_gejala.ConnectionString = "Provider=Microsoft.Jet.OLEDB.4.0;" & _
"Persist Security Info=False;Data Source=" & App.Path & "\expert_system.mdb"
ado_aturan_gejala.RecordSource = "select * from aturan_gejala"
ado_aturan_gejala.Refresh

End Sub

Private Sub t_penyakit()
On Error Resume Next
adopenyakit.ConnectionString = "Provider=Microsoft.Jet.OLEDB.4.0;" & _
"Persist Security Info=False;Data Source=" & App.Path & "\expert_system.mdb"
adopenyakit.RecordSource = "select * from penyakit"
adopenyakit.Refresh
End Sub

Private Sub t_gejala()
On Error Resume Next
adogejala.ConnectionString = "Provider=Microsoft.Jet.OLEDB.4.0;" & _
"Persist Security Info=False;Data Source=" & App.Path & "\expert_system.mdb"
adogejala.RecordSource = "select * from gejala"
adogejala.Refresh
End Sub

Sub gridpenyakit()
grid_penyakit.Cols = 3
grid_penyakit.ColWidth(0) = 400
grid_penyakit.ColWidth(1) = 800
grid_penyakit.ColWidth(2) = 2500
End Sub

Sub gridgejala()
grid_gejala.Cols = 3
grid_gejala.ColWidth(0) = 400
grid_gejala.ColWidth(1) = 800
grid_gejala.ColWidth(2) = 10000
End Sub

Private Sub cmdpenyakit_Click()
frame_penyakit.Visible = True
tcari_penyakit.SetFocus
End Sub

Sub aktif()
cmdgejala.Enabled = True
cmdpenyakit.Enabled = True
End Sub

```

```

Sub tdk_aktif()
cmdgejala.Enabled = False
cmdpenyakit.Enabled = False
End Sub

Sub kosong()
tkd_penyakit = ""
tkd_gejala = ""
tkd_aturan = ""
End Sub

Sub sembunyikan()
frame_penyakit.Visible = False
frame_gejala.Visible = False
End Sub

Private Sub cmdsimpan_Click()
ado_aturan_gejala.Recordset.Find "kd_aturan_gejala=" & tkd_aturan & ""

With ado_aturan_gejala.Recordset
If Not ado_aturan_gejala.Recordset.EOF Then
!kd_aturan_gejala = tkd_aturan.Text
!Kd_Penyakit = tkd_penyakit.Text
!Kd_Gejala = tkd_gejala.Text
.Update
Else
.AddNew
!kd_aturan_gejala = tkd_aturan.Text
!Kd_Penyakit = tkd_penyakit.Text
!Kd_Gejala = tkd_gejala.Text
.Update
End If

cmdsimpan.Enabled = False
cmdedit.Enabled = False
cmdhapus.Enabled = False
cmdtambah.Caption = "&Tambah"
Call tdk_aktif

End With
Call semula
Call t_aturan_gejala
grid1.Refresh

On Error GoTo 0
'cmdbatal_Click
End Sub

Private Sub cmdtambah_Click()
If cmdtambah.Caption = "&Tambah" Then
    kosong
    aktif
    AutoNumber
    cmdsimpan.Enabled = True
    cmdtambah.Caption = "&Batal"
    cmdedit.Enabled = False

```

```

    cmdhapus.Enabled = False
Else
    kosong
    tdk_aktif
    sembunyikan
    cmdsimpan.Enabled = False
    cmdtambah.Caption = "&Tambah"
    cmdedit.Enabled = False
    cmdhapus.Enabled = False
End If
End Sub

Private Sub AutoNumber()
On Error Resume Next

Dim Urutan As String * 8
Dim Hitung As Long
With ado_aturan_gejala.Recordset
If .EOF Then
Urutan = ("ATG") + "00001"
tkd_aturan = Urutan
Else
.MoveLast
Hitung = Right(!kd_aturan_gejala, 5) + 1
Urutan = ("ATG") + Right("90000" & Hitung, 5)
End If
tkd_aturan = Urutan
End With
End Sub

Private Sub Form_Activate()
gridpenyakit
gridgejala
'atur_grid
grid1.Cols = 4
grid1.ColWidth(0) = 200
grid1.ColWidth(1) = 1500
grid1.ColWidth(2) = 1000
grid1.ColWidth(3) = 1000
End Sub

Private Sub semula()
ado_aturan_gejala.RecordSource = "select * from aturan_gejala"
ado_aturan_gejala.Refresh
End Sub

Private Sub Form_Load()
Call t_gejala
Call t_penyakit
Call t_aturan_gejala
cmdgejala.Enabled = False
cmdpenyakit.Enabled = False
cmdsimpan.Enabled = False
cmdedit.Enabled = False
cmdhapus.Enabled = False

```

End Sub

```
Private Sub grid_gejala_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then
adogejala.Recordset.MoveFirst
adogejala.Recordset.Find "kd_gejala=" & grid_gejala.Text & ""
If Not adogejala.Recordset.EOF Then
tkd_gejala.Text = adogejala.Recordset!Kd_Gejala
End If
End If
frame_gejala.Visible = False
End Sub
```

```
Private Sub grid_penyakit_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then
adopenyakit.Recordset.MoveFirst
adopenyakit.Recordset.Find "kd_penyakit=" & grid_penyakit.Text & ""
If Not adopenyakit.Recordset.EOF Then
tkd_penyakit.Text = adopenyakit.Recordset!Kd_Penyakit
End If
End If
frame_penyakit.Visible = False
End Sub
```

```
Private Sub grid1_DblClick()
ado_aturan_gejala.Recordset.MoveFirst
ado_aturan_gejala.Recordset.Find "kd_aturan_gejala=" & grid1.Text & ""
If Not ado_aturan_gejala.Recordset.EOF Then
Call tampil
cmdedit.Enabled = True
cmdhapus.Enabled = True
cmdtambah.Caption = "&Batal"
Else
MsgBox "Maaf data tidak ditemukan", , "info"
End If
End Sub
```

```
Private Sub tcari_gejala_Change()
adogejala.RecordSource = "select * from gejala where gejala like '%" & tcari_gejala & "%"
adogejala.Refresh
grid_gejala.Refresh
End Sub
```

```
Private Sub tcari_gejala_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then
grid_gejala.SetFocus
End If
End Sub
```

```
Private Sub tcari_penyakit_Change()
adopenyakit.RecordSource = "select * from penyakit where penyakit like '%" & tcari_penyakit & "%"
adopenyakit.Refresh
grid_penyakit.Refresh
End Sub
```

```

Private Sub tcari_penyakit_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then
grid_penyakit.SetFocus
End If
End Sub

```

Source Code Halaman informasi

```

Sub tampil()
With adopenyakit.Recordset
tpenyakit.Text = !deskripsi
End With
End Sub
Private Sub cmdtutup_Click()
menuutama.Enabled = True
Unload Me
End Sub

Private Sub Form_Activate()
grid1.Cols = 3
grid1.ColWidth(0) = 400
grid1.ColWidth(1) = 800
grid1.ColWidth(2) = 2500
'grid1.ColWidth(3) = 9000
grid1.TextMatrix(0, 1) = "Kode"
grid1.TextMatrix(0, 2) = "Penyakit"
'grid1.TextMatrix(0, 3) = "Deskripsi"
menuutama.Enabled = False
End Sub

Private Sub Form_Load()
Call dbase_penyakit
End Sub
Private Sub dbase_penyakit()
On Error Resume Next
adopenyakit.ConnectionString = "Provider=Microsoft.Jet.OLEDB.4.0;" & _
"Persist Security Info=False;Data Source=" & App.Path & "\expert_system.mdb"
adopenyakit.RecordSource = "select * from penyakit"
adopenyakit.Refresh
End Sub

Private Sub grid1_DblClick()
adopenyakit.Recordset.MoveFirst
adopenyakit.Recordset.Find "penyakit=" & grid1.Text & ""
If Not adopenyakit.Recordset.EOF Then
Call tampil
Else
MsgBox "Maaf data tidak ditemukan", , "info"
End If
End Sub

```

```

Private Sub grid1_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then
adopenyakit.Recordset.MoveFirst
adopenyakit.Recordset.Find "kd_penyakit=" & grid1.Text & ""
If Not adopenyakit.Recordset.EOF Then
Call tampil

Else
MsgBox "Maaf data tidak ditemukan", , "info"
End If
End If
End Sub

Private Sub tcari_Change()
On Error Resume Next
adopenyakit.RecordSource = "select * from penyakit where penyakit like '%" & tcari & '%"
adopenyakit.Refresh
tpenyakit = ""
End Sub

Private Sub tcari_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then
grid1.SetFocus
End If
End Sub

```

Source Code Halaman Pasien

```

Private Sub cmbcari_Change()
End Sub

Private Sub cmdedit_Click()
If cmdedit.Caption = "&Edit" Then
cmdtambah.Caption = "&Batal"
cmdedit.Enabled = False
cmdsimpan.Enabled = True
cmdhapus.Enabled = False
Call aktif
tnama.SetFocus
Else
End If
End Sub

Private Sub cmdhapus_Click()
p = MsgBox("Benar id pasien = " + tid + " mau dihapus?", 32 + 4, "Tanya")
If p = vbYes Then
adopasien.Recordset.Delete
buka_dbase
semula
kosong
cmdedit.Enabled = False
cmdhapus.Enabled = False

```

```

Else
    buka_dbase
    semula

End If
End Sub

Private Sub cmdkeluar_Click()
menuutama.Enabled = True
Unload Me
End Sub
Private Sub buka_dbase()
On Error Resume Next
adopasien.ConnectionString = "Provider=Microsoft.Jet.OLEDB.4.0;" & _
"Persist Security Info=False;Data Source=" & App.Path & "\expert_system.mdb"
adopasien.RecordSource = "select * from pasien"
adopasien.Refresh
'grid1.DataSource = "adopasien"
End Sub

Private Sub semula()
adopasien.RecordSource = "select * from pasien"
adopasien.Refresh
End Sub

Private Sub cmdsimpan_Click()
adopasien.Recordset.Find "idpasien=" & tid & ""

With adopasien.Recordset
If Not adopasien.Recordset.EOF Then
!idpasien = tid.Text
!nm_pasien = tnama.Text
!tgl_lahir = dtp_tgl.Value
!alamat = talamat.Text
!usia = tusia.Text
!notelp = tnotelp.Text
    If rlaki.Value = True Then
        !jkel = "L"
    Else
        !jkel = "P"
    End If
.Update
Else
.AddNew
!idpasien = tid.Text
!nm_pasien = tnama.Text
!tgl_lahir = dtp_tgl.Value
!alamat = talamat.Text
!usia = tusia.Text
!notelp = tnotelp.Text
    If rlaki.Value = True Then
        !jkel = "L"
    Else
        !jkel = "P"
    End If
.Update

```

```

End If
cmdsimpan.Enabled = False
cmdedit.Enabled = False
cmdhapus.Enabled = False
cmdtambah.Caption = "&Tambah"
Call tdk_aktif

End With
Call semula
Call buka_dbase
grid1.Refresh

On Error GoTo 0
'cmdbatal_Click
End Sub

Private Sub cmdtambah_Click()
If cmdtambah.Caption = "&Tambah" Then

Call aktif
Call kosong
Call AutoNumber
tnama.SetFocus
cmdtambah.Caption = "&Batal"
cmdsimpan.Enabled = True
cmdedit.Enabled = False
cmdhapus.Enabled = False

Else
Call kosong
Call tdk_aktif
cmdtambah.Caption = "&Tambah"
cmdsimpan.Enabled = False
cmdhapus.Enabled = False
cmdedit.Enabled = False
End If
End Sub

Private Sub dtp_tgl_Change()
lbltgl.Caption = Format(Date, "dd/mm/yyyy")
A = (Right(lbltgl.Caption, 4))
B = (Right(dtp_tgl.Value, 4))

usia = Val(A) - Val(B)
tusia.Text = usia
End Sub

Private Sub Form_Load()
menuutama.Enabled = False
lbltgl.Caption = Format(Date, "dd/mm/yyyy")
Call buka_dbase
Call tdk_aktif
cmbcari.AddItem ("ID Pasien")
cmbcari.AddItem ("Nama Pasien")
cmbcari.AddItem ("Alamat")
cmbcari.AddItem ("No Telp")

```

```

cmdsimpan.Enabled = False
cmdedit.Enabled = False
cmdhapus.Enabled = False
End Sub

Sub tampil()
With adopasien.Recordset
tid.Text = !idpasien
tnama.Text = !nm_pasien
dtp_tgl.Value = !tgl_lahir
talamat.Text = !alamat
tusia.Text = !usia
tnotelp.Text = !notelp
If !jkel = "L" Then
    rlaki.Value = True
Else
    rperempuan.Value = True
End If
End With
End Sub

Private Sub AutoNumber()
On Error Resume Next
lbltgl.Caption = Format(Date, "dd/mm/yyyy")
A = (Right(lbltgl.Caption, 4))

Dim Urutan As String * 8
Dim Hitung As Long
With adopasien.Recordset
If .EOF Then
Urutan = (A) + "0001"
tid = Urutan
Else
.MoveLast
Hitung = Right(!idpasien, 4) + 1
Urutan = (A) + Right("9000" & Hitung, 4)
End If
tid = Urutan
End With
End Sub

Sub kosong()
tid = ""
tnama = ""
dtp_tgl = Date
tnotelp = ""
talamat = ""
tcari = ""
tusia = ""
rlaki.Value = False
rperempuan.Value = False
End Sub

Sub aktif()
tnama.Enabled = True
dtp_tgl.Enabled = True
tnotelp.Enabled = True

```

```
talamat.Enabled = True
rlaki.Enabled = True
rperempuan.Enabled = True
End Sub
```

```
Sub tdk_aktif()
tid.Enabled = False
tnama.Enabled = False
dtp_tgl.Enabled = False
tnotelp.Enabled = False
talamat.Enabled = False
tusia.Enabled = False
rlaki.Enabled = False
rperempuan.Enabled = False
End Sub
```

```
Private Sub grid1_DblClick()
adopasien.Recordset.MoveFirst
adopasien.Recordset.Find "idpasien=" & grid1.Text & ""
If Not adapasien.Recordset.EOF Then
Call tampil
cmdedit.Enabled = True
cmdhapus.Enabled = True
```

```
Else
MsgBox "Maaf data tidak ditemukan", , "info"
End If
End Sub
```

```
Private Sub tcari_Change()
If cmbcari.Text = "ID Pasien" Then
adopasien.RecordSource = "select * from pasien where idpasien like '%" & tcari & "%"
adopasien.Refresh
grid1.Refresh
ElseIf cmbcari.Text = "Nama Pasien" Then
adopasien.RecordSource = "select * from pasien where nm_pasien like '%" & tcari & "%"
adopasien.Refresh
grid1.Refresh
ElseIf cmbcari.Text = "Alamat" Then
adopasien.RecordSource = "select * from pasien where alamat like '%" & tcari & "%"
adopasien.Refresh
grid1.Refresh
ElseIf cmbcari.Text = "No Telp" Then
adopasien.RecordSource = "select * from pasien where notelp like '%" & tcari & "%"
adopasien.Refresh
grid1.Refresh
End If
End Sub
```