

## **BAB V**

### **KESIMPULAN DAN SARAN**

#### **A. Kesimpulan**

Berdasarkan uraian pada bab-bab sebelumnya, penulis mengambil kesimpulan sebagai berikut:

1. Sistem pakar yang telah dibuat menggunakan Visual Basic 6.0 menyediakan fasilitas bagi pakar yaitu untuk menambah data, menghapus data, mengubah data, dan menyimpan data. Sedangkan untuk pemakai mempunyai fasilitas untuk diagnosa gangguan kesehatan yang memerlukan pertolongan pertama dengan memilih gejala yang dialami oleh si bayi.
2. Berdasarkan pengujian yang dilakukan, aplikasi yang dibuat dapat dan layak dipergunakan untuk mendukung dan membantu proses pertolongan pertama pada bayi di bawah satu tahun saat mengalami gangguan kesehatan.

#### **B. Saran**

Dari kesimpulan yang didapat, maka saran yang dapat diberikan antara lain:

1. Basis pengetahuan dengan cakupan gejala awal yang lebih luas.
2. Dikembangkan berbasis web sehingga tidak memerlukan instalasi dan akses pengguna yang semakin luas.

## DAFTAR PUSTAKA

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## **LAMPIRAN**

## Listing Program

### 1. Form Utama

```
Private Sub Form_Load()  
    mnLogOff.Enabled = False  
    mnGantiPasword.Enabled = False  
    mnData.Enabled = False  
End Sub  
  
Private Sub Form_Unload(Cancel As Integer)  
End  
End Sub  
  
Private Sub mnAturan_Click()  
    frmAturan.Show vbModal  
End Sub  
  
Private Sub mnDiagnosa_Click()  
    frmDiagnosaGejalaAwal.Show 1  
End Sub  
  
Private Sub mnGantiPasword_Click()  
    frmgantiPassword.Show vbModal  
End Sub  
  
Private Sub mnGejalaAwal_Click()  
    frmGejalaAwal.Show vbModal  
End Sub  
  
Private Sub mnKeluar_Click()  
    Dim pesan  
    pesan = MsgBox("Anda yakin mau keluar dari program ?", vbQuestion  
    + vbYesNo + vbDefaultButton2, "Konfirmasi")  
    If pesan = vbYes Then  
        Unload Me  
    End If  
End Sub  
  
Private Sub mnLogin_Click()  
    frmLogin.Show 1  
    If Login Then  
        mnLogOff.Enabled = True  
        mnGantiPasword.Enabled = True  
        mnData.Enabled = True  
        mnLogin.Enabled = False  
    End If  
End Sub  
  
Private Sub mnLogOff_Click()  
    Dim pesan
```

```

pesan = MsgBox("Anda yakin mau Log-Off dari sistem?", vbQuestion
+ vbYesNo + vbDefaultButton2, "Konfirmasi")
If pesan = vbYes Then
mnLogin.Enabled = True
mnLogOff.Enabled = False
    mnGantiPasword.Enabled = False
    mnData.Enabled = False
End If

End Sub

Private Sub mnManualProgram_Click()
    frmManualProgram.Show vbModal
End Sub

Private Sub mnSolusi_Click()
    frmSolusi.Show vbModal
End Sub

Private Sub mnTentangProgram_Click()
    frmTentangProgram.Show
End Sub

```

## 2. Form Diagnosa Gejala Awal

```

Private Sub cmdBatal_Click()
    Unload Me
End Sub

Private Sub cmdOK_Click()
    Id_Aturan = List2.Text
    Unload Me
    frmDiagnosa.Show 1
End Sub

Private Sub cmdTutup_Click()
    Unload Me
End Sub

Private Sub Form_Load()
    adoGejalaAwal.ConnectionString =
"Provider=Microsoft.Jet.OLEDB.4.0;Data Source=" + App.Path +
"\Data.mdb;Persist Security Info=False"
    adoGejalaAwal.RecordSource = "SELECT * FROM Gejala_Awal ORDER BY
id_gejala"
    adoGejalaAwal.Refresh
    While Not adoGejalaAwal.Recordset.EOF
        lstGejalaAwal.AddItem IIf(IsNull(adoGejalaAwal.Recordset(0)),
"", adoGejalaAwal.Recordset(0)) + " - " +
IIf(IsNull(adoGejalaAwal.Recordset(1)), "",
adoGejalaAwal.Recordset(1))
        List2.AddItem adoGejalaAwal.Recordset("Id_Aturan")
    End While
End Sub

```

```

        adoGejalaAwal.Recordset.MoveNext
    Wend
    adoGejalaAwal.Refresh
    lstGejalaAwal.ListIndex = 0

End Sub

Private Sub lstGejalaAwal_Click()
    cmdOk.Enabled = True
    List2.ListIndex = lstGejalaAwal.ListIndex
End Sub

```

### 3. Form Pertanyaan Diagnosa

```

Private Sub cmdTidak_Click()
    Id_Aaturan = adoAaturan.Recordset("Tidak")
    If Left(Id_Aaturan, 1) = "S" Then
        Id_Solusi = Id_Aaturan
        Unload Me
        frmHasilDiagnosa.Show
        Exit Sub
    End If
    adoAaturan.Recordset.Find "Id_Aaturan = '" + Id_Aaturan + "'"
    On Error GoTo X
    R.Text = adoAaturan.Recordset("id_aturan") + ": " +
adoAaturan.Recordset("Pertanyaan")
    Exit Sub
X:
    MsgBox "Tidak Terdefinisi"
    Unload Me

End Sub

Private Sub cmdTutup_Click()
    Unload Me
End Sub

Private Sub cmdUlangi_Click()
    'CF = 100
    'adoAaturan.Refresh
    'adoAaturan.Recordset.Find "Id_Aaturan = '" + Id_Aaturan + "'"
    'On Error Resume Next
    'lblPertanyaan.Caption = adoAaturan.Recordset("Pertanyaan")
    'R.Text = adoAaturan.Recordset("id_aturan") + ": " +
adoAaturan.Recordset("Pertanyaan")
    'Id_Gejala_Awal = "G01"
End Sub

Private Sub cmdYa_Click()
    Id_Aaturan = adoAaturan.Recordset("Ya")
    If CF > Val(txtCF.Text) Then CF = Val(txtCF.Text)
    If Left(Id_Aaturan, 1) = "S" Then
        Id_Solusi = Id_Aaturan
        Unload Me
        frmHasilDiagnosa.Show
    End If
End Sub

```

```

        Exit Sub
    End If
    adoAturan.Recordset.MoveFirst
    On Error Resume Next
    adoAturan.Recordset.Find "Id_Aturan = '" + Id_Aturan + "'"
    R.Text = adoAturan.Recordset("id_aturan") + ": " +
adoAturan.Recordset("Pertanyaan")
End Sub

Private Sub DataGrid1_Click()

End Sub

Private Sub Form_Activate()
    CF = 100
    adoAturan.Refresh
    adoAturan.Recordset.Find "Id_Aturan = '" + Id_Aturan + "'"
    On Error Resume Next
    lblPertanyaan.Caption = adoAturan.Recordset("Pertanyaan")
    R.Text = adoAturan.Recordset("id_aturan") + ": " +
adoAturan.Recordset("Pertanyaan")
    Id_Gejala_Awal = "G01"
End Sub

Private Sub Form_Load()
    adoAturan.ConnectionString =
"Provider=Microsoft.Jet.OLEDB.4.0;Data Source=" + App.Path + _
"\Data.mdb;Persist Security
Info=False"
    adoAturan.RecordSource = "SELECT * FROM Aturan ORDER BY
id_aturan"
End Sub

Private Sub Form_Unload(Cancel As Integer)
Unload Me
End Sub

Private Sub VScroll11_Change()
    txtCF.Text = VScroll11.Value
End Sub

```

#### 4. Form Hasil Diagnosa

```

Private Sub cmdCetak_Click()
    On Error Resume Next
    T1 = RT1.Text
    T2 = RT2.Text
    T3 = txtCF.Text + "%"

    frmHasil.Show
End Sub

Private Sub cmdTutup_Click()
    Unload Me
End Sub

```

```

Private Sub Form_Load()
    adoSolusi.ConnectionString =
"Provider=Microsoft.Jet.OLEDB.4.0;Data Source=" + App.Path +
"\Data.mdb;Persist Security Info=False"
    adoSolusi.RecordSource = "SELECT * From Solusi WHERE
id_solusi='" + Id_Solusi + "'"
    adoSolusi.Refresh
    RT1.Text = adoSolusi.Recordset("Kemungkinan_Penyebab")
    RT2.Text = adoSolusi.Recordset("Tindakan")
    txtCF.Text = adoSolusi.Recordset("CF") * CF

End Sub

```

## 5. Form Cetak Hasil Diagnosa

```

Private Sub Form_Load()
    S1 = "{\b Kemungkinan Penyebab : \b0\par\par "
    S2 = "\par\par\b Tindakan : \b0\par\par "
    S3 = "\par\par\b Faktor Kepastian : \b0\par\par "

    RTF.TextRTF = S1 + T1 + S2 + T2 + S3 + T3 + "}"

End Sub

```

## 6. Form Login Administrator

```

Private Sub cmdLogin_Click()
    Nama_User = adoPakar.Recordset.Fields("Nama_User")
    Password = adoPakar.Recordset.Fields("Password")
    If (txtNamaUser.Text = Nama_User) And (txtPassword.Text =
Password) Then
        Login = True
        Unload Me
    Else
        MsgBox "Nama User Dan Password Salah", vbOKOnly, "Error"
        Login = False
    End If
End Sub

Private Sub cmdTutup_Click()
    Unload Me
End Sub

Private Sub Form_Load()
    adoPakar.ConnectionString =
"Provider=Microsoft.Jet.OLEDB.4.0;Data Source=" + App.Path +
"\Data.mdb;Persist Security Info=False"
    adoPakar.Refresh
End Sub

```



## 7. Form Solusi

```

Dim Tambah As Boolean
Private Sub Tampilkan()
    On Error Resume Next
    txtIdSolusi.Text = adoSolusi.Recordset.Fields("id_Solusi")
    txtKemungkinanPenyebab.Text =
IIf(IsNull(adoSolusi.Recordset.Fields("Kemungkinan_Penyebab")),
"", adoSolusi.Recordset.Fields("Kemungkinan_Penyebab"))
    txtTindakan.Text =
IIf(IsNull(adoSolusi.Recordset.Fields("Tindakan")), "",
adoSolusi.Recordset.Fields("Tindakan"))
    Text1.Text = IIf(IsNull(adoSolusi.Recordset.Fields("CF")), "",
adoSolusi.Recordset.Fields("CF"))
    cmdBatal.Enabled = False
    cmdBatal.Enabled = False
    cmdSimpan.Enabled = True
    cmdHapus.Enabled = True
    cmdTambah.Enabled = True
End Sub
Private Sub kosongkan()
    txtIdSolusi.Text = ""
    txtKemungkinanPenyebab.Text = ""
    txtTindakan.Text = ""
    cmdBatal.Enabled = True

End Sub

'Private Sub adoSolusi_MoveComplete(ByVal adReason As
ADODB.EventReasonEnum, ByVal pError As ADODB.Error, adStatus As
ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)
' If adoSolusi.Enabled Then Tampilkan
'End Sub

Private Sub cmdBatal_Click()
    Tampilkan
End Sub

Private Sub cmdhapus_Click()
    adoSolusi.Recordset.Delete
    MsgBox "Data Telah Terhapus"
    adoSolusi.Recordset.MoveFirst

End Sub

Private Sub cmdSimpan_Click()
    If Tambah Then adoSolusi.Recordset.AddNew
    adoSolusi.Recordset.Fields("Id_Solusi") = txtIdSolusi.Text
    adoSolusi.Recordset.Fields("Kemungkinan_Penyebab") =
txtKemungkinanPenyebab.Text
    adoSolusi.Recordset.Fields("Tindakan") = txtTindakan.Text
    adoSolusi.Recordset.Fields("CF") = Text1.Text
    On Error GoTo Peringatan
    adoSolusi.Recordset.Update
    MsgBox "Data Telah Tersimpan"

```

```
cmdTambah.Enabled = True
cmdHapus.Enabled = True
cmdSimpan.Enabled = True
cmdBatal.Enabled = False
adoSolusi.Enabled = True
Exit Sub
Peringatan:
MsgBox "terjadi Kesalahan Data"
End Sub

Private Sub cmdTambah_Click()
txtIdSolusi.SetFocus
cmdTambah.Enabled = False
cmdHapus.Enabled = False
cmdSimpan.Enabled = True
cmdBatal.Enabled = True
adoSolusi.Enabled = False
adoSolusi.Recordset.MoveLast
kosongkan
Tambah = True
End Sub

Private Sub cmdTutup_Click()
Unload Me
End Sub

Private Sub DataGrid1_Click()
Tampilkan
End Sub

Private Sub Form_Load()
adoSolusi.ConnectionString =
"Provider=Microsoft.Jet.OLEDB.4.0;Data Source=" + App.Path +
"\Data.mdb;Persist Security Info=False"
adoSolusi.RecordSource = "Solusi"
adoSolusi.Refresh
Tampilkan
DataGrid1.Columns(1).Width = 5200
End Sub

Private Sub txtDeskripsi_Change()
cmdBatal.Enabled = True
cmdSimpan.Enabled = True
End Sub

Private Sub txtKodeGejala_Change()
cmdBatal.Enabled = True
cmdBatal.Enabled = True
End Sub

Private Sub txtNamaGejala_Change()
cmdBatal.Enabled = True
cmdBatal.Enabled = True
End Sub
```

## 8. Form Gejala Awal

```

Dim Tambah As Boolean

Private Sub mode_edit()
    cmdTambah.Enabled = False
    cmdHapus.Enabled = False
    cmdBatal.Enabled = True
    cmdSimpan.Enabled = True
    DataGrid1.Enabled = False
    adoGejala.Enabled = False
End Sub

Private Sub mode_view()
    cmdTambah.Enabled = True
    cmdHapus.Enabled = True
    cmdBatal.Enabled = False
    cmdSimpan.Enabled = False
    DataGrid1.Enabled = True
    adoGejala.Enabled = True
End Sub

Private Sub Tampilkan()
    On Error Resume Next
    txtKodeGejala.Text = adoGejala.Recordset.Fields("id_gejala")
    txtNamaGejala.Text =
IIf(IsNull(adoGejala.Recordset.Fields("Nama_Gejala")), "",
adoGejala.Recordset.Fields("Nama_Gejala"))
    cmbAturan.Text = adoGejala.Recordset("id_aturan")
    DataGrid1.Columns(1).Width = 4200
    mode_view
    Tambah = False
End Sub

Private Sub kosongkan()
    txtKodeGejala.Text = ""
    txtNamaGejala.Text = ""
    cmbAturan.ListIndex = -1
    txtKodeGejala.SetFocus
End Sub

Private Sub cmbAturan_Change()
    mode_edit
End Sub

Private Sub cmbAturan_Click()
    mode_edit
End Sub

Private Sub cmdBatal_Click()

    Tampilkan
End Sub

Private Sub cmdhapus_Click()
    adoGejala.Recordset.Delete

```

```

    MsgBox "Data Telah Terhapus"
    adoGejala.Recordset.MoveFirst
End Sub

Private Sub cmdSimpan_Click()
    X = txtKodeGejala.Text
    If Tambah Then adoGejala.Recordset.AddNew
        Tambah = False
        adoGejala.Recordset.Fields("Id_Gejala") =
txtKodeGejala.Text
        adoGejala.Recordset.Fields("Nama_Gejala") =
txtNamaGejala.Text
        adoGejala.Recordset.Fields("id_aturan") =
Left(cmbAturan.Text, 3)
    On Error GoTo Peringatan
    adoGejala.Recordset.Update
    MsgBox "Data Telah Tersimpan"
    cmdTambah.Enabled = True
    cmdHapus.Enabled = True
    cmdSimpan.Enabled = True
    cmdBatal.Enabled = False
    adoGejala.Enabled = True
    cmdTambah.SetFocus
    Exit Sub
Peringatan:
MsgBox "terjadi Kesalahan Data"

End Sub

Private Sub cmdTambah_Click()
    txtKodeGejala.SetFocus
    cmdTambah.Enabled = False
    cmdHapus.Enabled = False
    cmdSimpan.Enabled = True
    cmdBatal.Enabled = True
    adoGejala.Enabled = False
    adoGejala.Recordset.MoveLast
    kosongkan
    Tambah = True
End Sub

Private Sub cmdTutup_Click()
    Unload Me
End Sub

Private Sub DataGrid1_Click()
    Tampilkan
End Sub

Private Sub DataGrid1_RowColChange(LastRow As Variant, ByVal
LastCol As Integer)
    If Not Tambah Then Tampilkan
End Sub

Private Sub Form_Load()
    adoAturan.ConnectionString =

```

```

"Provider=Microsoft.Jet.OLEDB.4.0;Data Source=" + App.Path +
"\Data.mdb;Persist Security Info=False"
adoAturan.RecordSource = "SELECT * FROM Aturan ORDER BY
id_Aturan"
adoAturan.Refresh

While Not adoAturan.Recordset.EOF
    cmbAturan.AddItem adoAturan.Recordset(0) + " - " +
IIf(IsNull(adoAturan.Recordset(1)), "", adoAturan.Recordset(1))
    adoAturan.Recordset.MoveNext
Wend

adoGejala.ConnectionString =
"Provider=Microsoft.Jet.OLEDB.4.0;Data Source=" + App.Path +
"\Data.mdb;Persist Security Info=False"
adoGejala.RecordSource = "SELECT * FROM Gejala_Awal ORDER BY
Id_Gejala"
adoGejala.Refresh
Tampilkan

End Sub

Private Sub txtDeskripsi_Change()
    cmdBatal.Enabled = True
    cmdSimpan.Enabled = True
End Sub

Private Sub txtKodeGejala_Change()
    mode_edit
End Sub

Private Sub txtNamaGejala_Change()
    mode_edit
End Sub

```

## 9. Form Aturan

```

Dim Tambah As Boolean
Private Sub Tampilkan()
    On Error Resume Next
    txtIdAturan.Text = adoAturan.Recordset.Fields("id_aturan")
    txtPertanyaan.Text =
IIf(IsNull(adoAturan.Recordset.Fields("Pertanyaan")), "",
adoAturan.Recordset.Fields("Pertanyaan"))
    cmbYA.Text = IIf(IsNull(adoAturan.Recordset("Ya")), "",
adoAturan.Recordset("Ya"))
    cmbTidak.Text = IIf(IsNull(adoAturan.Recordset("Tidak")), "",
adoAturan.Recordset("Tidak"))
    cmdBatal.Enabled = False
    cmdSimpan.Enabled = True
    cmdHapus.Enabled = True
    cmdTambah.Enabled = True
End Sub
Private Sub kosongkan()
    cmbYA.Text = ""
    cmbTidak.Text = ""

```

```

txtIdAturan.Text = ""
txtPertanyaan.Text = ""
cmbYA.Text = ""
cmbTidak.Text = ""

End Sub

'Private Sub adoAturan_MoveComplete(ByVal adReason As
ADODB.EventReasonEnum, ByVal pError As ADODB.Error, adStatus As
ADODB.EventStatusEnum, ByVal pRecordset As ADODB.Recordset)
'If adoAturan.Enabled Then Tampilkan
'End Sub

Private Sub cmdBatal_Click()
    Tampilkan
End Sub

Private Sub cmdhapus_Click()
    adoAturan.Recordset.Delete
    MsgBox "Data aturan telah terhapus", vbInformation
    adoAturan.Recordset.MoveFirst

End Sub

Private Sub cmdSimpan_Click()
    If Tambah Then adoAturan.Recordset.AddNew
    adoAturan.Recordset.Fields("Id_Aturan") = txtIdAturan.Text
    adoAturan.Recordset.Fields("Pertanyaan") = txtPertanyaan.Text
    adoAturan.Recordset.Fields("Ya") = Left(cmbYA.Text, 3)
    adoAturan.Recordset.Fields("Tidak") = Left(cmbTidak.Text, 3)
    On Error GoTo Peringatan
    adoAturan.Recordset.Update
    MsgBox "Data Telah Tersimpan"
    cmdTambah.Enabled = True
    cmdHapus.Enabled = True
    cmdSimpan.Enabled = True
    cmdBatal.Enabled = False
    adoAturan.Enabled = True
    Tambah = False
    Exit Sub
Peringatan:
MsgBox "terjadi Kesalahan Data"
End Sub

Private Sub cmdTambah_Click()
    txtIdAturan.SetFocus
    cmdTambah.Enabled = False
    cmdHapus.Enabled = False
    cmdSimpan.Enabled = True
    cmdBatal.Enabled = True
    adoAturan.Enabled = False
    adoAturan.Recordset.MoveLast
    kosongkan
    Tambah = True

End Sub

```

```

Private Sub cmdTutup_Click()
    Unload Me
End Sub

Private Sub DataGrid1_RowColChange(LastRow As Variant, ByVal
LastCol As Integer)
    Tampilkan
End Sub

Private Sub Form_Load()
    adoAturan.ConnectionString =
    "Provider=Microsoft.Jet.OLEDB.4.0;Data Source=" + App.Path +
    "\Data.mdb;Persist Security Info=False"
    adoAturan.RecordSource = "Aturan"
    adoAturan.Refresh

    While Not adoAturan.Recordset.EOF
        cmbYA.AddItem adoAturan.Recordset(0) + " - " +
        IIf(IsNull(adoAturan.Recordset(1)), "", adoAturan.Recordset(1))
        cmbTidak.AddItem adoAturan.Recordset(0) + " - " +
        IIf(IsNull(adoAturan.Recordset(1)), "", adoAturan.Recordset(1))
        adoAturan.Recordset.MoveNext
    Wend
    adoAturan.Refresh

    adoAturan.RecordSource = "select * from Solusi ORDER BY
id_solusi"
    adoAturan.Refresh

    While Not adoAturan.Recordset.EOF
        cmbYA.AddItem adoAturan.Recordset(0) + " - " +
        IIf(IsNull(adoAturan.Recordset(1)), "", adoAturan.Recordset(1))
        cmbTidak.AddItem adoAturan.Recordset(0) + " - " +
        IIf(IsNull(adoAturan.Recordset(1)), "", adoAturan.Recordset(1))
        adoAturan.Recordset.MoveNext
    Wend
    adoAturan.Refresh
    adoAturan.RecordSource = "Aturan"
    adoAturan.Refresh

    On Error Resume Next
    Tampilkan
    DataGrid1.Columns(1).Width = 4300
    DataGrid1.Columns(2).Width = 800
    DataGrid1.Columns(3).Width = 700
End Sub

Private Sub txtDeskripsi_Change()
    cmdBatal.Enabled = True
    cmdSimpan.Enabled = True

End Sub

Private Sub txtKodeGejala_Change()
    cmdBatal.Enabled = True

```

```
cmdBatal.Enabled = True
End Sub

Private Sub txtNamaGejala_Change()
cmdBatal.Enabled = True
cmdBatal.Enabled = True
End Sub
```



**IDENTITAS MAHASISWA**

Nama : KUKUH HADI PRA YUNO  
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 Program Studi : Teknik Informatika  
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 1. Ahmad Rizki  
 2. Agus Limbang Wardani

Yogyakarta .....  
 Ketua Program Studi .....

**LEMBAR PEMBINGUNGAN**

JUDUL SKRIPSI I : SISTEM PAKAR PETULONAN  
 PERTAMA PADA DAHLI DEBAWA  
 SATU TAHUN MENGGUNAKAN  
 METODE CERTAINTY FACTOR.....

No.	Herif/Tanggal	Catatan/Komentar Pembimbing	Tandatangan Pembimbing
1	27/19	lain ket. bel. ada aja.	2
2	28/19	revisi rubrik bagi cells nomor awal es	1
3	29/19	lain daftar yg proposal	2
4	29/19	revisi - revisi daftar	2
5		revisi lembar pengisian	2
6		daftar yg - revisi	2