BAB V

PENUTUP

5.1 Kesimpulan

Dari aplikasi sistem pakar tipe dasar manusia yang telah dibuat, dapat ditarik kesimpulan seperti berikut:

1. Sistem pakar diagnosa tipe dasar manusia terdiri dari modul tanya jawab, user berinteraksi dengan sistem pakar dengan cara menjawab pertanyaan yang diberikan, kemudian mendapatkan kesimpulan (solusi) beserta saran.

2. Sistem pakar ini bukan menggantikan posisi seorang psikologi tetapi hanya memiliki makna konsultatif bagi pemakainya.

3. Representasi knowledge berupa pohon knowledge diimplementasikan dalam bentuk database yang terdiri dari tabel sifat, tabel penyakit, tabel diagnosa dan table exp_fcl.

4. Metode algoritma inference pada sistem diagnosa tipe dasar manusia terjadi pertama sekali Sistem Pakar(SP) menanyakan pertanyaan yg berada di record paling atas dari tabel diagnosa. Jika user menjawab YA :Check isi data pada field YA.Jika isi data pada field YA inisial awalnya adalah G, maka: Melompat ke record yang field ID nya sama dengan ID pada filed YA tersebut.Jika isi data pada field YA inisial awalnya adalah S, maka: Ditemukan sifat dan pertanyaan berhenti. Jika user menjawab TIDAK : Check isi data pada field TIDAK. Jika isi data pada field TIDAK inisial awalnya adalah G, maka : Melompat ke record yang field ID nya

sama dengan ID pada field TIDAK tersebut. Jika isi data pada field TIDAK inisial awalnya adalah S, maka : Ditemukan sifat dan pertanyaan berhenti.

5.2 Saran

Penulis memberikan saran yang diusulkan untuk memperbaiki kekurangan diagnosa tipe dasar manusia 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 ilmu psikologi.

2. Faktor kepastian dalam mendiagnosa sifat merupakan hal yang penting, menentukan derajat kepercayaan terhadap hasil yang diberikan maka derajat kepercayaan pengguna semakin tinggi.

3. Sistem pakar untuk mendiagnosa tipe dasar manusia ini diharapkan dapat membantu *user* yaitu pasien atau calon psikologi sebagai evaluasi pembanding tentang diagnosa sementara yang disimpulkan.

4. Perlu adanya analisis dari seorang pakar eneagram atau tipe dasar manusia tentang hasil diagnosa pada aplikasi sistem pakar diagnosa tipe dasar manusia.

LAMPIRAN

```php
<?
$conn=pg_connect( "host=localhost port=5432 dbname=expertsystem user=postgres
password='rachmi'");


days = new Array(
"Minggu","Senin","Selasa","Rabu","Kamis","Jumat","Sabtu"
);
months = new Array(
"Januari","Februari","Maret","April","Mei","Juni","Juli","Agustus","September","Oktober","Nove
mber","Desember"
);

function renderDate(){
        var mydate = new Date();
        var year = mydate.getYear();
        if (year < 2000){
                if (document.all)
                        year = "19" + year;
                else
                        year += 1900;
        }
        var day = mydate.getDay();
        var month = mydate.getMonth();
        var daym = mydate.getDate();
        if (daym < 10)
                daym = "0" + daym;
        var hours = mydate.getHours();
        var minutes = mydate.getMinutes();
        var dn = "AM";
        if (hours >= 12) {
                dn ="PM";
                hours = hours - 12;
        }
        if (hours == 0)
                hours = 12;
        if (minutes <= 9)
                minutes = "0" + minutes;
        document.writeln(" <FONT COLOR=\"#000000\" FACE=\" Verdana,arial, helvetica,sans
serif\" size=\"l\"><B> ",days[day]," ",daym," ",months[month]," ",year,"</B>|
",hours,":",minutes," ",dn,"</FONT><BR>");
}

renderDate();




?><html>
<head>
<title>Home</title>
<style type="text/css">
<!--
#Layer1{
```

```css
        position:absolute;
        width: 200px;
        height: 115px;
        z-index:1;
        left: 277px;
        top: 150px;
}
.style 10 {color: #FF0000}
#Layer2{
        position:absolute;
        width:200px;
        height:115px;
        z-index: 1;
        left: 328px;
        top: 470px;
}
#Layer3 {
        position:absolute;
        width: 145px;
        height: 100px;
        z-index:1;
        left: 279px;
        top: 450px;
}
.style17 {color: #000000; font-family: Georgia, "Times New Roman", Times, serif; }
.style28 {font-size: 12px; }
.style25 {font-family: "Times New Roman", Times, serif; color: #FF0000;}
.style26{         color: #000000;
        font-size: 14px;
}
.style27 {font-size: 36px}
.style30 {color: #000000; font-size: 12px; }
.style31{
        font-family: "Courier New", Courier, monospace;
        font-size: 12px;
        font-weight: bold;
}
.style32 {
        color: #0000FF;
        font-weight: bold;
}
.style33 {color: #0000FF}
#Layer4 {
        position:absolute;
        width:200px;
        height:32px;
        z -index:1;
        left: 14px;
        top: 17px;
}
-->
</style>
</head>

<body>
```

```html
<div align="center">
  <table width="760" height="715" border="0" align="center" cellpadding="0" cellspacing="0">
   <tr valign="top">
    <td height="71" colspan="3"></p></td>
   </tr>
   <tr>
    <td height="38" colspan="3">width=  "763" height="38"></td>
   </tr>
   <tr>
    <tdwidth="149" height="17width="69" height="17"></td>
    <td width="452" rowspan="7" valign="top"><div id="Layer4">
     <script  language=JavaScript
    src="vnu_datestamp.js"></script> </div>
    <p align="justify" class="style10"> </p>
      <table width="393" border="0" align="center">
       <tr>
        <th width="387" height="211" scope="row"><span dass= "style10width="342"
height="176"></span></th>
       </tr>
       <tr>
        <th height="340" class="style25" scope="row"><p align="justify" class="style26"><span
class="style27">E</span><span class="style28">neagram adalah studi tentang sembilan tipe
dasar manusia (perfeksionis, penolong, pengejar prestasi, romantis, pengamat, pencemas,
petualang, pejuang, dan pendamai). </span></p>
        <p align="justify" class= "style30">Studi ini  memberikan penjelasan mengapa perilaku
manusia seperti ini dan memberi  pengarahan tertentu bagi pertumbuhan seseorang. </p>
        <p align="justify" class="style30">Cikal bakal Eneagram telah ada  sejak ratusan tahun
lalu. Asal persisnya tidak diketahui, namun ia diyakini  telah diajarkan secara lisan dalam
kelompok sufi rahasia di timur tengah. Guru  mistis Rusia, G.I. Gurdjieff lalu mengenalkan studi
ini ke eropa pada 1920-an,  dan akhirnya sampai di AS sekitar 1960-an.</p>
        <p align="justify" class="style30">Sistem eneagram (dibaca eni-e-grem) digambarkan
dengan suatu lingkaran yang berisi sebentuk bintang bertitik sembilan. Dalam bahasa Yunani,
<em>Ennea</em> adalah <span class="style33">angka sembilan</span>, dan <em>gram</em>
artinya <span class="style32">sebuah gambar</span>. Jadi, Enneagram berarti <span
class="style32">&quot;sebuah gambar bertitik sembilan&quot;</span>. </p></th>
       </tr>
      </table>
      <p></p>
    <p align="justify" class="style17"> </p></td>
    <td width="93" rowspan="7" valign="middle" bgcolor="#FF3333"> </td>
   </tr>
   <tr>
    <td width="218" height="33"><a href="index.php width="148" height="33" border="0"></a>
width="70" height="33"></td>
   </tr>
   <tr>
    <td height="19"><a href="petunjuk.php width="149" height="33" border="0"></a>
width="69" height="33"></td>
   </tr>
   <tr>
    <td height="33"><a href="knowledge.php width="148" height="33" border="0"></a>
width="70" height="33"></td>
   </tr>
   <tr>
```

```html
    <td height="33"><a href="about_me.php width="148" height="33"
border="0"></a>width="70" height="33"></td>
    </tr>
    <tr>
    <td height="19">width="149" height="19"> width="69" height="19"></td>
    </tr>
    <tr>
    <td height="409"> width="218" height="520" align="top"></td>
    </tr>
    <tr bordercolor= "#FFFFCC" bgcolor="#FF3333">
    <td height="21" colspan="3" align="center" valign="top"><div align="center"
class="style31"> copyright 2007</div></td>
    </tr>
  </table>
</div>
</body>
</html>


<?
$conn=pg_connect("host=localhost port=5432 dbname=expertsystem user=postgres
password='rachmi'");
$qry="select gejala.pertanyaan, diagnosa.link from diagnosa, gejala where
diagnosa.kode_gejala=gejala.kode_gejala and diagnosa.id_diagnosa='D01'";
$hsl=pg_exec($conn,$qry);
$row_cek=pg_fetch_array($hsl);
?>
<html>
<head>
<title>Home</title>
<style type="text/css">
<!--
#Layer1 {
        position:absolute;
        width:200px;
        height: 115px;
        z-index:1;
        left: 277px;
        top: 150px;
}
.style10 {color: #FF0000}
#Layer2{
        position:absolute;
        width:200px;
        height:115px;
        z-index:1;
        left: 328px;
        top: 470px;
}
#Layer3 {
        position:absolute;
        width: 145px;
        height: 100px;
        z-index:1;
        left: 279px;
```
4

```
            top: 450px;
}
.style17 {color: #000000; font-family: Georgia, "Times New Roman", Times, serif; }
.style28 {font-size: 12px;}
.style29 {font-size: 12px; color: #0000FF; }
.style30{
            font-family: "Courier New", Courier, monospace;
            font-size: 12px;
            font-weight: bold;
}
#Layer4{            position:absolute;
            width:200px;
            height:32px;
            z-index:1;
            left: 14px;
            top: 17px;
}
-->
</style>
</head>

<body>
<div align="center">
  <table width="760" height=  "715" border="0" align="center" cellpadding="0" cellspacing="0">
   <tr valign="top">
     <td height="71" colspan="3"><p> width="393" height="71">width="370"
height="71"></p></td>
   </tr>
   <tr>
     <td height="38" colspan="3"> width="763" height="38"></td>
   </tr>
   <tr>
     <td> width="149" height="17"> width="69" height="17"></td>
     <td width="449" rowspan="7" valign="top"><div id="Layer4">
      <script language=JavaScript
     src="vnu_datestamp.js"></script>
     </div>
     <p align="justify" class="style10">  </p>
       <table width="415" border="0" align="center">
         <tr>
           <th width="409" scope="col"><div align="justify">
            <p>Diagnosa</p>
            </div></th>
         </tr>
         <tr>
           <th scope="row"><form name="form3" method="post" action="">
            <textarea name="textfield" cols="50" rows="5"><? echo "$row_cek[pertanyaan]"; ?>
            </textarea>
           </form>            </th>
         </tr>
       </table>
       <table width=" 100" border="0" align="center">
         <tr>
           <th width="42" scope="col"><form name="form4" method="post" action="d2.php">
            <input type="submit" name="Submit3" value="Iya">
```

5

```
        </form>            </th>
        <th width="48" scope="col"><form name="form5" method="post" action="d3.php">
          <input type ="submit" name="Submit4" value="Tdk">
        </form>            </th>
      </tr>
    </table>
    <p> </p>
    <p></p>
    <p align="justify" class="style17"> </p></td>
  <td width="93" rowspan="7" valign="middle" bgcolor="#FF3333"> </td>
  </tr>
  <tr>
    <td width="221" height="33"><a href="index.php"> width="148" height="33"
border="0"></a> width="70" height="33"></td>
  </tr>
  <tr>
    <td height="19"><a href ="petunjuk.php"><img src="images/diagnosa.gif" width="149"
height="33" border="0"></a>width="69" height="33"></td>
  </tr>
  <tr>
    <td height="33"><a href="knowledge.php">width="148" height="33" border="0"></a>
width="70" height="33"></td>
  </tr>
  <tr>
    <td height="33"><a href= "about_me.php"> width="148" height="33" border="0"></a>
width="70" height="33"></td>
  </tr>
  <tr>
    <td height="19"> width="149" height="19"> width="69" height="19"></td>
  </tr>
  <tr>
    <td height="409"> width="218" height="520" align="top"></td>
  </tr>
  <tr bordercolor="#FFFFCC" bgcolor="#FF3333">
    <td height="21" colspan="3" align="center" valign="top"><div align="center"
class="style30"> copyright 2007</div></td>
  </tr>
  </table>
</div>
</body>
</html>


<?
$conn=pg_connect("host=localhost port=5432 dbname=expertsystem user=postgres
password='rachmi'");
$qry="select gejala.pertanyaan, diagnosa.link from diagnosa, gejala where
diagnosa.kode_gejala=gejala.kode_gejala and diagnosa.id_diagnosa='D01'";
$hsl=pg_exec($conn,$qry);
$row_cek= pg_fetch_array($hsl);
?>
<html>
<head>
<title>Home</title>
```

```
<style type="text/css">
<!--
#Layer1{
        position:absolute;
        width:200px;
        height:115px;
        z-index:1;
        left: 277px;
        top: 150px;
}
.style10 {color: #FF0000}
#Layer2{
        position:absolute;
        width:200px;
        height:11 5px;
        z-index:1;
        left: 328px;
        top: 470px;
}
#Layer3 {
        position:absolute;
        width: 145px;
        height: 100px;
        z-index:1;
        left: 279px;
        top: 450px;
}
.style17 {color: #000000; font-family: Georgia, "Times New Roman", Times, serif;}
.style28 {font-size: 12px; }
.style29 {font-size: 12px; color: #0000FF; }
.style30{
        font-family: "Courier New", Courier, monospace;
        font-size: 12px;
        font-weight: bold;
}
#Layer4{        position:absolute;
        width:200px;
        height:32px;
        z-index:1;
        left: 18px;
        top: 25px;
}
-->
</style>
</head>

<body>
<div align="center">
  <table width="760" height="715" border="0" align="center" cellpadding="0" cellspacing="0">
    <tr valign="top">
      <td height="71" colspan="3"><p>width="393" height="71">width="370"
height="71"></p></td>
    </tr>
    <tr>
      <td height="38" colspan="3"> width="763" height="38"></td>
```

```
</tr>
<tr>
  <td> width="149" height="17">width="69" height="17"></td>
  <td width="449" rowspan="7" valign="top"><div id="Layer4">
   <script language=JavaScript
  src="vnu_datestamp.js"></script>
  </div>
  <p align="justify" class="style10"> </p>
    <table width="390" border= "1" align="center" bordercolor="#666666">
      <tr bordercolor="#999999">
        <th width="384" height="143" scope="row"><div align="justify">
          <p class="style28">Sebelum Anda mulai melakukan diagnosa, bacalah petunjuk
berikut ini:</p>
          <ol>
            <li class="style29">Dalam eneagram ini, ada 2 jawaban yang akan Anda pilih, tombol
ya dan tombol tidak.</li>
            <li class="style29">Setiap pertanyaan yang diberikan akan berubah sesuai dengan
jawaban pilihan Anda.</li>
            <li class="style29">Pertanyaan akan berhenti, bila sudah ada hasil kesimpulan. </li>
            <li class="style29">Selamat Mencoba........ </li>
          </ol>
        </div></th>
      </tr>
    </table>
    <table width="390" border="0" align="center">
      <tr>
        <th height="102" scope="col"><form name="form1" method="post"
action="diagnosa.php">
          <p>
          <input type="submit" name="Submit" value="OK">
          </p>
          </form>              <p align="right"> </p></th>
      </tr>
    </table>
    <p> </p>
    <p> </p>
    <p></p>
    <p align="justify" class="style17"> </p></td>
  <td width="93" rowspan="7" valign="middle" bgcolor="#FF3333"> </td>
</tr>
<tr>
  <td width= "221" height="33"><a href="index.php">width="148" height="33"
border="0"></a>width="70" height="33"></td>
</tr>
<tr>
  <td height="19"><a href= "petunjuk.php"> width="149" height="33" border="0"></a>
width="69" height="33"></td>
</tr>
<tr>
  <td height="33"><a href="knowledge.php"> width="148" height="33" border="0"></a>
width="70" height="33"></td>
</tr>
<tr>
  <td height="33"><a href="about_me.php">width="148" height="33"
border="0"></a>width="70" height="33"></td>
```

```php
          <input type="submit" name="Submit4" value= "Tdk">
        </form>
        </th>



<?
$conn=pg_connect("host=localhost port=5432 dbname=expertsystem user=postgres
password= 'rachmi'");
$qry="select gejala.pertanyaan, diagnosa.link from diagnosa, gejala where
diagnosa.kode_gejala=gejala.kode_gejala and diagnosa.id_diagnosa='D06'";
$hsl=pg_exec($conn,$qry);
$row_cek=pg_fetch_array($hsl);
?>

        <th width= "42" scope="col"><form name= "form4" method="post" action="d11.php">
          <input type="submit" name="Submit3" value="Iya">
        </form>
        </th>
        <th width="48" scope="col"><form name="form5" method="post" action="d12.php">
          <input type="submit" name="Submit4" value="Tdk">
        </form>
        </th>


<?
$conn=pg_connect("host=localhost port=5432 dbname=expertsystem user=postgres
password='rachmi'");
$qry="select gejala.pertanyaan, diagnosa.link from diagnosa, gejala where
diagnosa.kode_gejala=gejala.kode_gejala and diagnosa.id_diagnosa='D07';
$hsl=pg_exec($conn,$qry);
$row_cek=pg_fetch_array($hsl);
?>

        <th width="42" scope="col"><form name="form4" method="post" action="p7a.php">
          <input type="submit" name="Submit3" value="Iya">
        </form>
        </th>
        <th width="48" scope="col"><form name="form5" method="post" action="p7b.php">
          <input type="submit" name="Submit4" value="Tdk">
        </form>
        </th>


<?
$conn=pg_connect("host=localhost port=5432 dbname=expertsystem user=postgres
password='rachmi'");
$qry="select gejala.pertanyaan, diagnosa.link from diagnosa, gejala where
diagnosa.kode_gejala=gejala.kode_gejala and diagnosa.id_diagnosa='D08'";
$hsl=pg_exec($conn,$qry);
$row_cek=pg_fetch_array($hsl);
?>

        <tr>
        <th width="42" scope="col"><form name="form4" method="post" action="d13.php">
          <input type="submit" name="Submit3" value="Iya">
```

```
            <input type="submit" name="Submit4" value="Tdk">
          </form>
         </th>
         </tr>
```
```php
<?
$conn=pg_connect("host=localhost port=5432 dbname=expertsystem user=postgres
password='rachmi'");
$qry="select gejala.pertanyaan, diagnosa.link from diagnosa, gejala where
diagnosa.kode_gejala=gejala.kode_gejala and diagnosa.id_diagnosa='D21'";
$hsl=pg_exec($conn,$qry);
$row_cek=pg_fetch_array($hsl);
?>
```
```
          <tr>
           <th width="42" scope="col"><form name="form4" method="post" action="p21a.php">
            <input type="submit" name="Submit3" value="Iya">
           </form>
           </th>
           <th width="48" scope="col"><form name="form5" method="post" action="p21b.php">
            <input type="submit" name="Submit4" value="Tdk">
           </form>
           </th>
          </tr>
```
```php
<?
$conn=pg_connect("host=localhost port=5432 dbname=expertsystem user=postgres
password='rachmi'");
$qry="select gejala.pertanyaan, diagnosa.link from diagnosa, gejala where
diagnosa.kode_gejala=gejala.kode_gejala and diagnosa.id_diagnosa='D20'";
$hsl=pg_exec($conn,$qry);
$row_cek=pg_fetch_array($hsl);
?>
```
```
          <tr>
           <th width="42" scope="col"><form name="form4" method="post" action="d26.php">
            <input type="submit" name="Submit3" value="Iya">
           </form>
           </th>
           <th width="48" scope="col"><form name="form5" method="post" action="p20.php">
            <input type="submit" name="Submit4" value="Tdk">
           </form>
           </th>
          </tr>
```
```php
<?
$conn=pg_connect("host=localhost port=5432 dbname=expertsystem user=postgres
password='rachmi'");
$qry="select gejala.pertanyaan, diagnosa.link from diagnosa, gejala where
diagnosa.kode_gejala=gejala.kode_gejala and diagnosa.id_diagnosa='D22'";
$hsl=pg_exec($conn,$qry);
$row_cek=pg_fetch_array($hsl);
?>
```
```
          <tr>
           <th width="42" scope="col"><form name="form4" method="post" action="p22a.php">
            <input type="submit" name="Submit3" value="Iya">
           </form>
```