

```
CREATE OR REPLACE package cHawk as
```

```
procedure msg                ( i_txt   in varchar2 default 'Virheilmoitus puuttuu???' );
```

```
procedure tx_edit           ( name_array in owa.vc_arr,  
                             value_array in owa.vc_arr );
```

```
procedure revoke_us_dc_lg   ( i_usid  in us.usid%type default null,  
                             i_uspw  in us.uspw%type default null,  
                             i_usnr  in us.usnr%type default null,  
                             i_dcnr  in dc.dcnr%type default null,  
                             i_lgnr  in lg.lgnr%type default null );
```

```
procedure grant_doit       ( i_usid  in us.usid%type default null,  
                             i_uspw  in us.uspw%type default null,  
                             i_usnr  in us.usnr%type default null,  
                             i_dcnr  in dc.dcnr%type default null,  
                             i_lgnr  in lg.lgnr%type default null );
```

```
procedure grant_us_dc_lg   ( i_usid  in us.usid%type default null,  
                             i_uspw  in us.uspw%type default null,  
                             i_usnr  in us.usnr%type default null,  
                             i_dcnr  in dc.dcnr%type default null );
```

```
procedure grant_us_dc      ( i_usid  in us.usid%type default null,  
                             i_uspw  in us.uspw%type default null,  
                             i_usnr  in us.usnr%type default null );
```

```
procedure grant_us         ( i_usid  in us.usid%type default null,  
                             i_uspw  in us.uspw%type default null );
```

```
procedure grant_Or_Revoke  ( name_array in owa.vc_arr,  
                             value_array in owa.vc_arr );
```

```
procedure nr_txtx_list     ( i_usid  in us.usid%type default null,  
                             i_uspw  in us.uspw%type default null );
```

```
procedure doc_edit         ( name_array in owa.vc_arr,  
                             value_array in owa.vc_arr );
```

```
procedure user_edit        ( name_array in owa.vc_arr,  
                             value_array in owa.vc_arr );
```

```
procedure language_edit    ( name_array in owa.vc_arr,  
                             value_array in owa.vc_arr );
```

```
procedure menu             ( i_usid  in us.usid%type default null,
```

```

                i_uspw in us.uspw%type default null);

procedure login          ( i_usid in us.usid%type default null,
                          i_uspw in us.uspw%type default null);

end cHawk;
/
CREATE OR REPLACE package body cHawk as

rgb_admin1 constant varchar2(9):='#aabbbaa';

----- msg
procedure msg(i_txt in varchar2 default 'Virheilmoitus puuttuu???) is
begin

    http.p(i_txt);
    http.p('</body></html>');

exception

    when others then
        http.print('msg:');
        http.print(sqlerrm);
        http.print('</body></html>');
end msg;

/*****
Funktio arvo etsii parametrin vcParametri arvon ja palauttaa sen.
*****/

function arvo ( i_parametri in varchar2,
                arrNimet    in owa.vc_arr,
                arrArvot    in owa.vc_arr) return varchar2 is

    n      number;
    loytyi exception;

begin

    for i in 1 .. arrNimet.count loop
        if trim( lower( arrNimet(i))) = trim( lower( i_parametri)) then
            n := i;
            raise loytyi;
        end if;
    end loop;
end loop;

```

```

return null;

exception

when loytyi then
    return arrArvot(n);

when others then
    msg('cHawk.arvo: ' || sqlerrm );
    return null;

end arvo;

/*****
  Funktio arvot etsii parametrin i_Parametri arvot ja palauttaa ne.
  *****/

function arvot ( i_parametri in varchar2,
                arrNimet     in owa.vc_arr,
                arrArvot     in owa.vc_arr) return owa.vc_arr is

    n                number :=0;
    arrPoimitutArvot owa.vc_arr;

begin

    for i in 1 .. arrNimet.count loop
        if trim( lower( arrNimet(i))) = trim( lower( i_parametri)) then
            n := n+1;
            arrPoimitutArvot(n) := arrArvot(i);
        end if;
    end loop;

    return arrPoimitutArvot;

exception

when others then
    msg('cHawk.arvot: ' || sqlerrm );
    return arrPoimitutArvot;

end arvot;

----- valid_user

```

```

function valid_user ( i_usid in us.usid%type default null,
                    i_uspw in us.uspw%type default null
                    ) return boolean
is

    n number;

begin

    select count(*) into n from us where usid=i_usid and uspw=i_uspw;
    if n>0 then
        return true;
    else
        return false;
    end if;

exception

    when others then
        msg('cHawk.valid_user: ' || sqlerrm);

end valid_user;

----- user_role
function user_role ( i_usid in us.usid%type default null,
                   i_uspw in us.uspw%type default null
                   ) return varchar2
is
    p_usro us.usro%type;
begin
    select usro into p_usro from us where usid=i_usid and uspw=i_uspw;
    return p_usro;
exception
    when others then
        return ' User not found! ';
end user_role;

----- takeUsnr
function takeUsnr(i_uslgdc in varchar2) return number is

    p number;
    t varchar2(10);

begin

```

```
p := instr(i_uslgdc, '.', 1);
if 1 < p then
  t := substr(i_uslgdc, 1, p-1);
  return to_number(t);
else
  return null;
end if;
```

exception

```
when others then
  msg('cHawk.takeUsnr: ' || sqlerrm);
```

end takeUsnr;

----- *takeLgnr*
function takeLgnr(i_uslgdc in varchar2) return number is

```
p1 number;
p2 number;
t varchar2(10);
```

begin

```
p1 := instr(i_uslgdc, '.', 1);
p2 := instr(i_uslgdc, '.', p1+1);
if p1+1 < p2 then
  t := substr(i_uslgdc, p1+1, p2-p1-1);
  return to_number(t);
else
  return null;
end if;
```

exception

```
when others then
  msg('cHawk.takeLgnr: ' || sqlerrm);
```

end takeLgnr;

----- *takeDcnr*
function takeDcnr(i_uslgdc in varchar2) return number is

```
p1 number;
p2 number;
```

```

t varchar2(10);

begin

p1 := instr(i_uslgdc, '.',1);
p2 := instr(i_uslgdc, '.',p1+1);
if p1 < p2 and p2 < length(i_uslgdc) then
    t := substr(i_uslgdc,p2+1);
    return to_number(t);
else
    return null;
end if;

exception

when others then
    msg('cHawk.takeDcnr: ' || sqlerrm);

end takeDcnr;

----- select_User
procedure select_User( i_usnr in us.usnr%type default null) is

    cursor c is select usnr, usid from us order by usid;

begin

htp.p('
<select name="i_usnr">');
for r in c loop
    if r.usnr=i_usnr then
        htp.p('<option value="" || r.usnr || '" selected>' || r.usid);
    else
        htp.p('<option value="" || r.usnr || '">' || r.usid);
    end if;
end loop;
htp.p('
</select>
');
exception

when others then
    msg('cHawk.select_User: ' || sqlerrm);

end select_User;

```

```

----- select_Language
procedure select_Language( i_lgnr in lg.lgnr%type default null) is

    cursor c is select lgnr, lgnm from lg order by lgnm;

begin

    http.p('
    <select name="i_lgnr">');
    for r in c loop
        if r.lgnr=i_lgnr then
            http.p('<option value="' || r.lgnr || '" selected>' || r.lgnm);
        else
            http.p('<option value="' || r.lgnr || '">' || r.lgnm);
        end if;
    end loop;
    http.p('
    </select>
    ');
exception

    when others then
        msg('cHawk.select_Language: ' || sqlerrm);

end select_Language;

```

```

----- tx_edit
procedure tx_edit( name_array in owa.vc_arr,
                  value_array in owa.vc_arr) is

    p_usid      us.usid%type := arvo('i_usid',      name_array, value_array);
    p_uspw      us.uspw%type := arvo('i_uspw',      name_array, value_array);

    p_fromLgnr  lg.lgnr%type := arvo('i_fromLgnr',  name_array, value_array);
    p_fromLgnm  lg.lgnm%type;
    p_toDcnrLgnr varchar2(20) := arvo('i_toDcnrLgnr', name_array, value_array);
    p_dcnr      dc.dcnr%type := takeDcnr(p_toDcnrLgnr);
    p_dcnm      dc.dcnm%type;
    p_toLgnr    lg.lgnr%type := takeLgnr(p_toDcnrLgnr);
    p_toLgnm    lg.lgnm%type;

    p_button    varchar2(20) := arvo('i_button',    name_array, value_array);

    p_insertDepo de.depo%type := arvo('i_insertDepo', name_array, value_array);
    p_deleteDenr de.denr%type := arvo('i_deleteDenr', name_array, value_array);

```

```
p_newDenr de.denr%type;
```

```
p_txtxfrom tx.txtx%type;
```

```
p_txtxto tx.txtx%type;
```

```
p_txnrtto tx.txnr%type;
```

```
p_denr de.denr%type;
```

```
p_depo de.depo%type;
```

```
p_updateDenr owa.vc_arr := arvot('i_updateDenr', name_array, value_array);
```

```
p_updateDepo owa.vc_arr := arvot('i_updateDepo', name_array, value_array);
```

```
p_updateTxnr owa.vc_arr := arvot('i_updateTxnr', name_array, value_array);
```

```
p_updateTxtx owa.vc_arr := arvot('i_updateTxtx', name_array, value_array);
```

```
n number;
```

```
cursor c_from is
```

```
select
```

```
tx.txtx
```

```
from
```

```
tx, de, dc
```

```
where
```

```
tx.denr = de.denr
```

```
and de.dcnr = dc.dcnr
```

```
and dc.dcnr = p_dcnr
```

```
and tx.lgnr = p_fromLgnr
```

```
order by
```

```
depo;
```

```
cursor c_to is
```

```
select
```

```
tx.txnr,
```

```
tx.txtx,
```

```
de.denr,
```

```
de.depo
```

```
from
```

```
tx, de, dc
```

```
where
```

```
tx.denr = de.denr
```

```
and de.dcnr = dc.dcnr
```

```
and dc.dcnr = p_dcnr
```

```
and tx.lgnr = p_toLgnr
```

```
order by
```

```
depo;
```

```
begin
```

```
select count(*)
```

```

into n
from pe, us
where pe.usnr = us.usnr
      and pe.dcnr = p_dcnr
      and pe.lgnr = p_toLgnr;

if user_role(i_usid=>p_usid, i_uspw=>p_uspw) in('translator','superuser')
  and n>0
  then

  if p_button = 'Update' then -- Update tx-table
    for i in 1..p_updateTxnr.count loop
      update tx set txtx=p_updateTxtx(i) where txnr=p_updateTxnr(i);
      update de set depo=p_updateDepto(i) where denr=p_updateDenr(i);
    end loop;
  end if;

  if p_button = 'Add Position' then
    select sq_dcnr.nextval into p_newDcnr from dual;
    insert into de
      ( denr, dcnr, depo)
    values( p_newDcnr, p_dcnr, p_insertDepto);
    insert into tx
      ( txnr, denr, lgnr)
    select sq_txnr.nextval, p_newDcnr, lgnr from lg;
  end if;

  if p_button = 'Delete Position' then
    delete from tx where denr = p_deleteDenr;
    delete from de where denr = p_deleteDenr;
  end if;

  if p_button = 'Renumber*10' then
    update de set depo=10*depo where dcnr=p_dcnr;
  end if;

  if p_button = 'Renumber/10' then
    update de set depo=depo/10 where dcnr=p_dcnr;
  end if;

  select dcnm into p_dcnm from dc where dcnr=p_dcnr;
  select lgnm into p_toLgnm from lg where lgnr=p_toLgnr;
  select lgnm into p_fromLgnm from lg where lgnr=p_fromLgnr;

  http.p('
<html>
  <head><title>Edit cHawk</title></head>

```

```

<body bgcolor="#aabbbaa">

<h2 align="center">Document: '| |p_dcnm    | |'</h2>

<form action="!cHawk.tx_edit" method="post">
  <input type="hidden" name="i_usid"      value="'| |p_usid| |'">
  <input type="hidden" name="i_uspw"     value="'| |p_uspw| |'">
  <input type="hidden" name="i_fromLgnr" value="'| |p_fromLgnr| |'">
  <input type="hidden" name="i_toDcnrLgnr" value="'| |p_toDcnrLgnr| |'">
  <table border="1" align="center" cellspacing="3" cellpadding="15" bgcolor="#556655">
    <tr>
      <td align="center" bgcolor="#ccddcc">
        Reading <b>'| |p_fromLgnm| |'</b>
        <br>
        Updating <b>'| |p_toLgnm  | |'</b>
      </td>
    </tr>');
  open c_from;
  open c_to;
  loop
    fetch c_from into p_txtxfrom;
    fetch c_to   into p_txnrtto, p_txtxto, p_denr, p_depo;
    exit when c_from%notfound;
    http.p('
    <tr>
      <td bgcolor="#ccddcc">
        <br>
        <input type="hidden" name="i_updateDenr" value="'| |p_denr| |'">');
    if user_role(i_usid=>p_usid, i_uspw=>p_uspw)='superuser' then
      http.p('
      Text position
      <input type="text" name="i_updateDepo" value="'| |p_depo| |'" size="6">
      <input type="radio" name="i_deleteDenr" value="'| |p_denr| |'">
      <input type="submit" name="i_button" value="Delete Position">
      <br>
      ');
    else
      http.p('<input type="hidden" name="i_updateDepo" value="'| |p_depo| |'">');
    end if;
    http.p('
    <b>'| |p_txtxfrom| |'</b>
    <br>
    <textarea name="i_updateTxtx" cols="90" rows="6" valign="top">'| |p_txtxto| |'</textarea>
    <input type="hidden" name="i_updateTxnr" value="'| |p_txnrtto| |'">
    </td>
  </tr>
  ');

```

```

        end loop;
    close c_to;
    close c_from;
    http.p( '
    <tr>
        <td bgcolor="#ccddcc">
            <input type="submit" name="i_button" value="Update">');
            if user_role(i_usid=>p_usid, i_uspw=>p_uspw)='superuser' then
                http.p( '
                <br>
                New text position at
                <input type="text" size="4" name="i_insertDepo">
                <input type="submit" name="i_button" value="Add Position">
                <br>
                <input type="submit" name="i_button" value="Renumber*10">
                <br>
                <input type="submit" name="i_button" value="Renumber/10">
                ');
            end if;
            http.p( '
        </td>
    </tr>
    </table>
    </form>
    </body>
    </html>
    ');

else

    msg('Ei valtuuksia!');

end if;

exception

when others then
    msg('cHawk.tx_edit: ' || sqlerrm);

end tx_edit;

----- revoke_us_dc_lg
procedure revoke_us_dc_lg( i_usid in us.usid%type default null,
                          i_uspw in us.uspw%type default null,
                          i_usnr in us.usnr%type default null,
                          i_dcnr in dc.dcnr%type default null,
                          i_lgnr in lg.lgnr%type default null) is

```

```

cursor c is
select
    us.usid, us.usnr,
    dc.dcnm, dc.dcnr,
    lg.lgnm, lg.lgnr
from
    pe, us, dc, lg
where
    pe.usnr = us.usnr
and pe.dcnr = dc.dcnr
and pe.lgnr = lg.lgnr
order by
    us.usid, dc.dcnm, lg.lgnm;

begin

if user_role(i_usid=>i_usid, i_uspw=>i_uspw) = 'superuser' then

delete from pe where usnr=i_usnr and dcnr=i_dcnr and lgnr=i_lgnr;

htp.p('
<html>
<head><title>Revoke cHawk</title></head>
<body>

<table cellpadding="2">');
for r in c loop
    htp.p('
<tr>
<td>' || r.usid || '</td>
<td>' || r.dcnm || '</td>
<td>' || r.lgnm || '</td>
<td>
<form action="cHawk.revoke_us_dc_lg" method="post">
    <input type="hidden" name="i_usid" value="' || i_usid || '">
    <input type="hidden" name="i_uspw" value="' || i_uspw || '">
    <input type="hidden" name="i_usnr" value="' || r.usnr || '">
    <input type="hidden" name="i_dcnr" value="' || r.dcnr || '">
    <input type="hidden" name="i_lgnr" value="' || r.lgnr || '">
    <input type="submit" value="Revoke">
</form>
</td>
</tr>
');
end loop;
htp.p('
</table>
</body>

```

```

</html>');
end if;

exception

when others then
    msg('cHawk.select_ed: ' || sqlerrm);

end revoke_us_dc_lg;

```

```
----- grant_doit
```

```

procedure grant_doit( i_usid in us.usid%type default null,
                    i_uspw in us.uspw%type default null,
                    i_usnr in us.usnr%type default null,
                    i_dcnr in dc.dcnr%type default null,
                    i_lgnr in lg.lgnr%type default null) is

    p_peusid us.usid%type;
    p_dcnm   dc.dcnm%type;
    p_lgnm   lg.lgnm%type;

begin

if user_role(i_usid=>i_usid, i_uspw=>i_uspw) ='superuser' then

select usid into p_peusid from us where usnr=i_usnr;
select dcnm into p_dcnm   from dc where dcnr=i_dcnr;
select lgnm into p_lgnm   from lg where lgnr=i_lgnr;

insert into pe (usnr, dcnr, lgnr) values(i_usnr, i_dcnr, i_lgnr);

```

```

http.p('
<html>
<head>
    <title>Grant cHawk</title>
</head>
<body>
    <b>Grant</b> 1 2 3 <b>4</b>
    <br>1. User = '|| p_peusid ||'
    <br>2. Document = '|| p_dcnm ||'
    <br>3. Language = '|| p_lgnm ||'
    <br>4. <b>Granted<b>
    <br>
    <form action="cHawk.grant_us" method="post">
        <input type="hidden" name="i_usid" value="' || i_usid || '">
        <input type="hidden" name="i_uspw" value="' || i_uspw || '">

```

```

    <input type="submit" value=" Next User">
</form>
<form action="cHawk.grant_us_dc" method="post">
  <input type="hidden" name="i_usid" value="' || i_usid || '">
  <input type="hidden" name="i_uspw" value="' || i_uspw || '">
  <input type="hidden" name="i_usnr" value="' || i_usnr || '">
  <input type="submit" value=" Next Document">
</form>
<form action="cHawk.grant_us_dc_lg" method="post">
  <input type="hidden" name="i_usid" value="' || i_usid || '">
  <input type="hidden" name="i_uspw" value="' || i_uspw || '">
  <input type="hidden" name="i_usnr" value="' || i_usnr || '">
  <input type="hidden" name="i_dcnr" value="' || i_dcnr || '">
  <input type="submit" value=" Next Language">
</form>
</body>
</html>
');

end if;

exception

  when others then
    msg('cHawk.grant_doit: ' || sqlerrm);

end grant_doit;

----- grant_us_dc_lg
procedure grant_us_dc_lg( i_usid in us.usid%type default null,
                        i_uspw in us.uspw%type default null,
                        i_usnr in us.usnr%type default null,
                        i_dcnr in dc.dcnr%type default null) is

  p_peusid us.usid%type;
  p_dcnm   dc.dcnm%type;

  cursor c_lg is
  select
    *
  from
    lg
  where
    lgnr in ( select
              from
              not_permitted

```

```

                                where
                                dcnr = i_dcnr
                                )
order by
    lgnm;

begin

if user_role(i_usid=>i_usid, i_uspw=>i_uspw) = 'superuser' then

select usid into p_peusid from us where usnr=i_usnr;
select dcnm into p_dcnm   from dc where dcnr=i_dcnr;

htp.p('
<html>
<head>
<title>Grant cHawk</title>
</head>
<body>
<b>Grant</b> 1 2 <font color="red"><b>3 4</b></font>
<br>
1. User = '|| p_peusid ||'
<br>
2. Document = '|| p_dcnm ||'
<br>
<form action="cHawk.grant_doit" method="post">
<input type="hidden" name="i_usid" value="' || i_usid | "'>
<input type="hidden" name="i_uspw" value="' || i_uspw | "'>
<input type="hidden" name="i_usnr" value="' || i_usnr | "'>
<input type="hidden" name="i_dcnr" value="' || i_dcnr | "'>
<b>3. Select Language</b><br>
<select name="i_lgnr">');
  for r in c_lg loop
    htp.p('<option value="' || r.lgnr | "'>' || r.lgnm);
  end loop;
  htp.p('
</select>
<br><br>
<input type="submit" value=" 4. Grant Permission">
</form>
</body>
</html>
');

end if;

exception

when others then

```

```

msg('cHawk.grant_us_dc_lg: ' || sqlerrm);

end grant_us_dc_lg;

----- grant_us_dc
procedure grant_us_dc( i_usid in us.usid%type default null,
                      i_uspw in us.uspw%type default null,
                      i_usnr in us.usnr%type default null) is

p_peusid us.usid%type;

cursor c_dc is
select
      *
from    dc
where   dcnr in (select dcnr from not_permitted)
order  by
      dcnm;

begin

if user_role(i_usid=>i_usid, i_uspw=>i_uspw) = 'superuser' then

select usid into p_peusid from us where usnr=i_usnr;

htp.p('
<html>
<head>
<title>Grant cHawk</title>
</head>
<body>
<b>Grant</b> 1 <font color="red"><b>2</b></font> 3 4
<br>
1. User = '|| p_peusid ||'
<br>
<form action="cHawk.grant_us_dc_lg" method="post">
  <input type="hidden" name="i_usid" value=" ' || i_usid | ' ">
  <input type="hidden" name="i_uspw" value=" ' || i_uspw | ' ">
  <input type="hidden" name="i_usnr" value=" ' || i_usnr | ' ">
  <b>2. Select Document</b><br>
  <select name="i_dcnr">' );
  for r in c_dc loop

```

```

        http.p('<option value="" || r.dcnr || "'>' || r.dcnm);
    end loop;
    http.p('
</select>
<br><br>
<input type="submit" value=" -> 3, Select Language">
</form>
</body>
</html>
');

end if;

exception

    when others then
        msg('cHawk.grant_us_dc: ' || sqlerrm);

end grant_us_dc;

----- grant_us
procedure grant_us( i_usid in us.usid%type default null,
                    i_uspw in us.uspw%type default null) is

    cursor c_us is
        select * from us order by usid;

begin

if user_role(i_usid=>i_usid, i_uspw=>i_uspw) ='superuser' then

http.p('
<html>
<head>
    <title>Grant cHawk</title>
</head>
<body>
    <b>Grant:</b> <font color="red"><b>1</b></font> 2 3 4
    <form action="cHawk.grant_us_dc" method="post">
        <input type="hidden" name="i_usid" value="" || i_usid || "'>
        <input type="hidden" name="i_uspw" value="" || i_uspw || "'>
    <b>1. Select User</b><br>
    <select name="i_usnr">');
        for r in c_us loop
            http.p('<option value="" || r.usnr || "'>' || r.usid);
        end loop;
    http.p('

```

```
        </select>
        <br><br>
        <input type="submit" value=" -> 2, Select Document">
    </form>
</body>
</html>
');
```

```
end if;
```

```
exception
```

```
    when others then
```

```
        msg('cHawk.grant_us: ' || sqlerrm);
```

```
end grant_us;
```

```
----- grant_Or_Revoke
procedure grant_Or_Revoke( name_array in owa.vc_arr,
                          value_array in owa.vc_arr) is
```

```
    -- user giving the rights
```

```
    p_id      us.usid%type := arvo('i_id',      name_array, value_array);
```

```
    p_pw      us.uspw%type := arvo('i_pw',      name_array, value_array);
```

```
    -- user getting the rights
```

```
    p_usnr    us.usnr%type := arvo('i_usnr',    name_array, value_array);
```

```
    p_lgnr    lg.lgnr%type := arvo('i_lgnr',    name_array, value_array);
```

```
    p_button  varchar2(20) := arvo('i_button',  name_array, value_array);
```

```
    p_uslgdc  owa.vc_arr    := arvot('i_uslgdc', name_array, value_array);
```

```
    p_boxusnr us.usnr%type;
```

```
    p_boxlgnr lg.lgnr%type;
```

```
    p_boxdcnr dc.dcnr%type;
```

```
n number;
```

```
cursor c is
```

```
    select
```

```
        *
```

```
    from
```

```
        dcpe
```

```
    order by
```

```
        dcnm, lgnm, usid;
```

```

begin

if user_role(i_usid=>p_id, i_uspw=>p_pw) = 'superuser' then

htp.p('
<html>
  <head>
    <title>Grant cHawk</title>
  </head>
  <body>');

  if p_button='Grant' then
    for i in 1 .. p_uslgdc.count loop

      p_boxusnr := takeUsnr(p_uslgdc(i));
      p_boxlgnr := takeLgnr(p_uslgdc(i));
      p_boxdcnr := takeDcnr(p_uslgdc(i));

      select count(*) into n from pe
      where      usnr = p_usnr
                and lgnr = p_lgnr
                and dcnr = p_boxdcnr;

      if n = 0 then
        insert into pe
          (      usnr,      lgnr,      dcnr )
        values ( p_usnr, p_lgnr, p_boxdcnr );
      end if;

    end loop;
  end if;

  if p_button='Revoke' then
    for i in 1 .. p_uslgdc.count loop

      p_boxusnr := takeUsnr(p_uslgdc(i));
      p_boxlgnr := takeLgnr(p_uslgdc(i));
      p_boxdcnr := takeDcnr(p_uslgdc(i));

      select count(*) into n from pe
      where      usnr = p_boxusnr
                and lgnr = p_boxlgnr
                and dcnr = p_boxdcnr;
    end loop;
  end if;
end if;

```

```

if n > 0 then
    delete from pe
        where      usnr = p_boxusnr
                and lgnr = p_boxlgnr
                and dcnr = p_boxdcnr;
end if;

end loop;
end if;

```

```

http.p('
<h3 align="center">Grant or Revoke</h3>
<form action="!cHawk.grant_Or_Revoke" method="post">
    <input type="hidden" name="i_id" value="'|p_id|'|">
    <input type="hidden" name="i_pw" value="'|p_pw|'|">
    <table align="center">
        <tr>
            <td align="center">');
                select_User(i_usnr=>p_usnr);
                http.p('
            </td>
            <td>');
                select_Language(i_lgnr=>p_lgnr);
                http.p('
            </td>
            <td>
                &nbsp;
            </td>
            <td>
                <input type="submit" name="i_button" value="Grant">
                <input type="submit" name="i_button" value="Revoke">
            </td>
        </tr>');
    for r in c loop
        http.p('
        <tr>
            <td>
                '|r.usid|'|
            </td>
            <td>
                '|r.lgnm|'|
            </td>
            <td>
                <input type="checkbox" name="i_uslgdc"
                    value="'|r.usnr|'|.'|r.lgnr|'|.'|r.dcnr|'|">
            </td>
            <td> '|r.dcnm|'| </td>

```

```

        </tr>');
end loop;
htp.p('
<tr>
  <td>
    &nbsp;
  </td>
  <td>
    &nbsp;
  </td>
  <td>
    &nbsp;
  </td>
  <td>
    <input type="submit" name="i_button" value="Grant">
    <input type="submit" name="i_button" value="Revoke">
  </td>
</tr>
</table>
</form>
</body>
</html>
');

else

  msg('cHawk.grant_Or_Revoke: ID=' || p_id || '; PW=' || p_pw);

end if;

exception

  when others then
    msg('cHawk.grant_Or_Revoke: ' || sqlerrm);

end grant_Or_Revoke;

----- nr_txtx_list
procedure nr_txtx_list ( i_usid in us.usid%type default null,
                        i_uspw in us.uspw%type default null) is

  cursor c1 is
    select lgnm, dcnm, nde, ntx from txmade where nde = ntx order by lgnm, dcnm;

  cursor c2 is
    select lgnm, dcnm, nde, ntx from txmade where nde != ntx order by lgnm, dcnm;

```

```

begin

if user_role(i_usid=>i_usid, i_uspw=>i_uspw) ='superuser' then

  http.p('
  <html>
  <head>
    <title>Documents</title>
  </head>

  <body>
    <table align="center" cellspacing="10" border="1">
      <tr>
        <td>
          <b>All text made</b>
          <table>');
          for r in c1 loop
            http.p('
            <tr>
              <td>' || r.lgnm || '</td>
              <td>' || r.dcnm || '</td>
              <td>' || r.nde || '</td>
              <td>' || r.ntx || '</td>
            </tr>');
          end loop;
          http.p('
          </table>
        </td>
      </tr><tr>
        <td>
          <b>Text missing</b>
          <table>');
          for r in c2 loop
            http.p('
            <tr>
              <td>' || r.lgnm || '</td>
              <td>' || r.dcnm || '</td>
              <td>' || r.nde || '</td>
              <td>' || r.ntx || '</td>
            </tr>');
          end loop;
          http.p('
          </table>
        </td>
      </tr>
    </table>
  </body>

```

```

</html>
');
end if;

exception

when others then
    msg('cHawk.nr_txtx_list: ' || sqlerrm);

end nr_txtx_list;

```

```

----- doc_edit
procedure doc_edit( name_array in owa.vc_arr,
                   value_array in owa.vc_arr) is

```

```

    p_usid    us.usid%type := arvo('i_usid',    name_array, value_array);
    p_uspw    us.uspw%type := arvo('i_uspw',    name_array, value_array);
    p_button  varchar2(20) := arvo('i_button',  name_array, value_array);

    p_dcnr    dc.dcnr%type;
    p_deleteDcnr dc.dcnr%type := arvo('i_deleteDcnr', name_array, value_array);
    p_dcnm    dc.dcnm%type := arvo('i_dcnm',    name_array, value_array);
    p_deCount number       := arvo('i_deCount',  name_array, value_array);
    p_lgnr    lg.lgnr%type := arvo('i_lgnr',    name_array, value_array);
    p_lgnm    lg.lgnm%type;

```

```

cursor c is
    select dc.dcnr, dc.dcnm, lg.lgnm
    from   dc, lg
    where  dc.lgnr = lg.lgnr
    order by dcnm;

```

```
begin
```

```

    http.p('
<html>
    <head><title>cHawk, Document Admin</title></head>
<body bgcolor=' || rgb_admin1 || '>

<h2 align="center">cHawk, Documents</h2>');

    if user_role(i_usid=>p_usid, i_uspw=>p_uspw) = 'superuser' then

```

```

if      p_button='Add Document'
and p_dcnm is not null
and p_deCount > 0
then

select sq_dcnr.nextval into p_dcnr from dual;

insert into dc
      ( dcnr, dcnm, lgnr)
values ( p_dcnr, p_dcnm, p_lgnr);

for i in 1..p_deCount loop
insert into de
      ( denr, dcnr, depo)
values( sq_dcnr.nextval, p_dcnr, 10*i);
end loop;

insert into tx
      ( txnr, denr, lgnr)
select sq_txnr.nextval, de.denr, lg.lgnr
from dc, de, lg
where dc.dcnr = de.dcnr
and dc.dcnr = p_dcnr;

select lgnm into p_lgnm from lg where lgnr=p_lgnr;

htp.p('
Added
<br>Document = '||p_dcnm ||'
<br>Document number = '||p_dcnr ||'
<br>Default language = '||p_lgnm);

end if;

```

```

if p_button = 'Delete Document' then

delete from tx where txnr in
      ( select txnr
        from de, tx
        where de.denr = tx.denr
              and de.dcnr = p_deleteDcnr
        );

delete from de where dcnr = p_deleteDcnr;

delete from dc where dcnr = p_deleteDcnr;

```

```

    http.p('Document nr ' || p_deleteDcncr || ' deleted');

end if;

http.p('
<form action="!cHawk.doc_edit" method="post">
  <input type="hidden" name="i_usid" value="' || p_usid || '">
  <input type="hidden" name="i_uspw" value="' || p_uspw || '">
  <table border="1"><tr><td><table>
    <tr>
      <td>
        Documentfile name
      </td>
      <td>
        <input type="text" name="i_dcnm" size="80" maxlength="80">
      </td>
    </tr><tr>
      <td>
        Text Element Count
      </td>
      <td>
        <input type="text" name="i_deCount" size="5">
      </td>
    </tr><tr>
      <td>
        Default Language
      </td>
      <td>
        ');
        select_Language;
        http.p('
      </td>
    </tr>
      <td>
        &nbsp;
      </td>
      <td>
        <input type="submit" name="i_button" value="Add Document">
      </td>
    </tr>
  </table></td></tr></table>
</form>
');

http.p('
<form action="!cHawk.doc_edit" method="post">

```

```

<input type="hidden" name="i_usid" value="'|p_usid|'|">
<input type="hidden" name="i_uspw" value="'|p_uspw|'|">
<table>');
  for r in c loop
    http.p('
      <tr>
        <td>
          '|r.dcnm|'|
        </td>
        <td>
          Nr'|r.dcnr|'|
        </td>
        <td>
          <input type="radio" name="i_deleteDcnr" value="'|r.dcnr|'|">
        </td>
        <td>
          <input type="submit" name="i_button" value="Delete Document">
        </td>
      </tr>');
    end loop;
  http.p('
</table>
</form>
');

else
  msg('Unknown user');
end if;
http.p('
</body>
</html>
');
exception

when others then
  msg('cHawk.doc_edit: '| sqlerrm);

end doc_edit;

```

```

----- user_edit
procedure user_edit( name_array in owa.vc_arr,
                    value_array in owa.vc_arr) is

```

```

p_usid      us.usid%type := arvo('i_usid',      name_array, value_array);
p_uspw      us.uspw%type := arvo('i_uspw',      name_array, value_array);
p_button    varchar2(20) := arvo('i_button',    name_array, value_array);

```

```

p_insertusid us.usid%type := arvo('i_insertusid', name_array, value_array);
p_insertuspw us.uspw%type := arvo('i_insertuspw', name_array, value_array);
p_insertusro us.usro%type := arvo('i_insertusro', name_array, value_array);

p_updateusnr owa.vc_arr := arvot('i_updateusnr', name_array, value_array);
p_updateusid owa.vc_arr := arvot('i_updateusid', name_array, value_array);
p_updateuspw owa.vc_arr := arvot('i_updateuspw', name_array, value_array);
p_updateusro owa.vc_arr := arvot('i_updateusro', name_array, value_array);

p_deleteusnr us.usnr%type := arvo('i_deleteusnr', name_array, value_array);

```

```

cursor c is select * from us order by usid;

```

```

begin

```

```

if user_role(i_usid=>p_usid, i_uspw=>p_uspw) = 'superuser' then

  if p_button = 'Insert' then
    insert into us
      ( usnr, usid, uspw, usro)
    values (sq_usnr.nextval, p_insertusid, p_insertuspw, p_insertusro);
  end if;

  if p_button = 'Update' then
    for i in 1..p_updateusnr.count loop
      update us
        set usid = p_updateusid(i),
            uspw = p_updateuspw(i),
            usro = p_updateusro(i)
        where usnr = p_updateusnr(i);
    end loop;
  end if;

  if p_button = 'Delete' then
    delete from us where usnr=p_deleteusnr;
  end if;

```

```

htp.p('
<html>
  <head><title>cHawk, Users</title></head>

  <body bgcolor='||rgb_admin1||'>

```

```

<h2 align="center">cHawk, Users</h2>

<form action="!cHawk.user_edit" method="post">
  <input type="hidden" name="i_usid" value="' | p_usid| '| ">
  <input type="hidden" name="i_uspw" value="' | p_uspw| '| ">
  <table width="100%" align="center" border="1" bgcolor="#bbccbb"><tr><td>
<table>
  <tr>
    <td>UserId</td>
    <td>UserPw</td>
    <td>UserRole</td>
  </tr>
  <tr>
    <td><input type="text" name="i_insertusid"></td>
    <td><input type="password" name="i_insertuspw"></td>
    <td><input type="text" name="i_insertusro"></td>
    <td><input type="submit" name="i_button" value="Insert"></td>
  </tr>
</table>
</td></tr></table>
</form>

<form action="!cHawk.user_edit" method="post">
  <input type="hidden" name="i_usid" value="' | p_usid| '| ">
  <input type="hidden" name="i_uspw" value="' | p_uspw| '| ">
  <table width="100%" align="center" border="1" bgcolor="#bbccbb"><tr><td>
<table>
  <tr>
    <td>UserId</td>
    <td>UserPw</td>
    <td>UserRole</td>
  </tr>');
for r in c loop
  http.p('
  <tr>
    <td>
      <input type="hidden" name="i_updateusnr" value="' | r.usnr| '| ">
      <input type="text" name="i_updateusid" value="' | r.usid| '| ">
    </td>
    <td>
      <input type="password" name="i_updateuspw" value="' | r.uspw| '| ">
    </td>
    <td>
      <input type="text" name="i_updateusro" value="' | r.usro| '| ">
    </td><td>
      <input type="radio" name="i_deleteusnr" value="' | r.usnr| '| ">
      <input type="submit" name="i_button" value="Delete">
    </td>
  </tr>
  </table>
  </td>
</tr>
</table>
</form>

```

```

        </tr>
        ');
end loop;
htp.p('
<tr>
    <td colspan="2" align="center">
        <input type="submit" name="i_button" value="Update">
    </td>
</tr>
</table>
</td></tr></table>
</form>
</body>
</html>
');

else

    msg('Ei valtuuksia!');

end if;

exception

    when others then
        msg('cHawk.user_edit: ' || sqlerrm);

end user_edit;

----- language_edit
procedure language_edit( name_array in owa.vc_arr,
                        value_array in owa.vc_arr) is

    n number;

    p_usid      us.usid%type := arvo('i_usid',      name_array, value_array);
    p_uspw      us.uspw%type := arvo('i_uspw',      name_array, value_array);
    p_button    varchar2(20) := arvo('i_button',    name_array, value_array);

    p_insertlgnm lg.lgnm%type := arvo('i_insertlgnm', name_array, value_array);
    p_insertlgnr lg.lgnr%type;

    p_updatelgnr owa.vc_arr := arvot('i_updatelgnr', name_array, value_array);
    p_updatelgnm owa.vc_arr := arvot('i_updatelgnm', name_array, value_array);

    p_deletelgnr lg.lgnr%type := arvo('i_deletelgnr', name_array, value_array);
    p_deletelgnm lg.lgnm%type;

```

```

cursor c is select * from lg order by lgnm;

begin
  htp.p('
  <html>
    <head><title>cHawk, Languages</title></head>
    <body bgcolor='||rgb_admin1||'>
      <h2 align="center">cHawk, Languages</h2>');

  if user_role(i_usid=>p_usid, i_uspw=>p_uspw) = 'superuser' then

    if p_button = 'Insert' then

      select sq_lgnr.nextval into p_insertlgnr from dual;

      insert into lg(          lgnr,          lgnm)
        values(p_insertlgnr, p_insertlgnm);

      insert into tx(txnr, denr, lgnr)
        select
          sq_txnr.nextval, denr, p_insertlgnr
        from
          de;

    end if;

    if p_button = 'Update' then
      for i in 1..p_updatelgnr.count loop
        update lg
          set lgnm = p_updatelgnm(i)
          where lgnr = p_updatelgnr(i);
      end loop;
    end if;

    if p_button = 'Delete' then

      select count(txtx) into n from tx where lgnr = p_deletelgnr;

      if n > 0 then

```

```

select lgnm into p_deletelgnm from lg where lgnr = p_deletelgnr;
htp.p('Not deleted. There exists ' || to_char(n) ||
' text-elements in ' || p_deletelgnm );
else
delete from pe where lgnr = p_deletelgnr;
delete from tx where lgnr = p_deletelgnr;
delete from lg where lgnr = p_deletelgnr;
end if;

```

```
end if;
```

```

htp.p('
<form action="!cHawk.language_edit" method="post">
  <input type="hidden" name="i_usid" value="' || p_usid || '">
  <input type="hidden" name="i_uspw" value="' || p_uspw || '">
  <table width="100%" align="center" border="1" bgcolor="#bbccbb"><tr><td>
  <table>
    <tr>
      <td>Language</td>
    </tr>
    <tr>
      <td><input type="text" name="i_insertlgnm"></td>
      <td><input type="submit" name="i_button" value="Insert"></td>
    </tr>
  </table>
  </td></tr></table>
</form>

```

```

<form action="!cHawk.language_edit" method="post">
  <input type="hidden" name="i_usid" value="' || p_usid || '">
  <input type="hidden" name="i_uspw" value="' || p_uspw || '">
  <table width="100%" align="center" border="1" bgcolor="#bbccbb"><tr><td>
  <table>
    <tr>
      <td>Language</td>
    </tr>');
  for r in c loop
    htp.p('
    <tr>
      <td>
        <input type="hidden" name="i_updatelgnr" value="' || r.lgnr || '">
        <input type="text" name="i_updatelgnm" value="' || r.lgnm || '">
      </td>
      <td>
        <input type="radio" name="i_deletelgnr" value="' || r.lgnr || '">
        <input type="submit" name="i_button" value="Delete">
      </td>
    </tr>

```

```

        </tr>
        ');
end loop;
htp.p('
<tr>
    <td colspan="2" align="center">
        <input type="submit" name="i_button" value="Update">
    </td>
</tr>
</table>
</td></tr></table>
</form>
</body>
</html>
');

else

    msg('Ei valtuuksia!');

end if;

exception

    when others then
        msg('cHawk.language_edit: ' || sqlerrm);

end language_edit;

----- menu
procedure menu ( i_usid in us.usid%type default null,
                i_uspw in us.uspw%type default null) is

    p_usro us.usro%type := user_role(i_usid=>i_usid, i_uspw=>i_uspw);

----- edit_dc_lg, local in menu
procedure edit_dc_lg is

    cursor c_from is
        select lgnr, lgnm from lg order by lgnm;

    cursor c_to is
        select
            lg.lgnr, lg.lgnm, dc.dcnr, dc.dcnm
        from
            pe, lg, dc, us
        where

```

```

        pe.lgnr = lg.lgnr
    and pe.dcnr = dc.dcnr
    and pe.usnr = us.usnr
    and us.usid = i_usid
    and us.uspw = i_uspw
order by
    dc.dcnm, lg.lgnm;

begin -- edit_dc_lg, local in menu

htp.p('
<form action="!cHawk.tx_edit" method="post" target="Work">
  <input type="hidden" name="i_usid" value="' || i_usid || '">
  <input type="hidden" name="i_uspw" value="' || i_uspw || '">
  <table cellpadding="4">
    <tr>
      <td>
        Reading<br>
        <select name="i_fromLgnr">');
        for r in c_from loop
            htp.p('<option value="' || r.lgnr || '">' || r.lgnm);
        end loop;
        htp.p('
        </select>
      </td>
      <td>
        Updating<br>
        <select name="i_toDcnrLgnr">');
        for r in c_to loop
            htp.p('<option value=".' || r.lgnr || '.' || r.dcnr || '">' || r.dcnm || ' ' || r.lgnm);
        end loop;
        htp.p('
        </select>
      </td>
      <td>
        <br>
        <input type="submit" value="Edit">
      </td>
    </tr>
  </table>
</form>
');

exception
when others then
    msg('cHawk.edit_dc_lg: ' || sqlerrm);
end edit_dc_lg; -- local in menu

```

```
begin -- menu
```

```
http.p('
<html>
<head><title>Menu cHawk</title></head>
<body>

<div align="center">
<h3>cHawk, ');
if p_usro = 'translator' then
  http.p('Translator');
end if;
if p_usro = 'superuser' then
  http.p('Administrator');
end if;
http.p('</h3>');

if p_usro in('superuser', 'translator') then

  if p_usro = 'superuser'
  then
    http.p('
<form action="!cHawk.language_edit" method="post" target="Work">
  <input type="hidden" name="i_usid" value="' || i_usid | "'>
  <input type="hidden" name="i_uspw" value="' || i_uspw | "'>
  <input type="submit" value="Language Admin">
</form>
<form action="!cHawk.user_edit" method="post" target="Work">
  <input type="hidden" name="i_usid" value="' || i_usid | "'>
  <input type="hidden" name="i_uspw" value="' || i_uspw | "'>
  <input type="submit" value="User Admin">
</form>
<form action="!cHawk.doc_edit" method="post" target="Work">
  <input type="hidden" name="i_usid" value="' || i_usid | "'>
  <input type="hidden" name="i_uspw" value="' || i_uspw | "'>
  <input type="submit" value="Doc Admin">
</form>
<form action="!cHawk.grant_Or_Revoke" method="post" target="Work">
  <input type="hidden" name="i_id" value="' || i_usid | "'>
  <input type="hidden" name="i_pw" value="' || i_uspw | "'>
  <input type="submit" value="Grant or Revoke">
</form>

<table>
<tr>
<td>
<form action="cHawk.grant_us" method="post" target="Work">
```

```

        <input type="hidden" name="i_usid" value="' || i_usid || '">
        <input type="hidden" name="i_uspw" value="' || i_uspw || '">
        <input type="submit" value="Grant">
    </form>
</td>
<td>
<form action="cHawk.revoke_us_dc_lg" method="post" target="Work">
    <input type="hidden" name="i_usid" value="' || i_usid || '">
    <input type="hidden" name="i_uspw" value="' || i_uspw || '">
    <input type="submit" value="Revoke">
</form>
</td>
</tr>
</table>

<form action="cHawk.nr_txtx_list" method="post" target="No Text">
    <input type="hidden" name="i_usid" value="' || i_usid || '">
    <input type="hidden" name="i_uspw" value="' || i_uspw || '">
    <input type="submit" value="Document text content info">
</form>
');
end if;

edit_dc_lg;

end if;

http.p('
</div>
</body>
</html>
');

exception

when others then

    msg('cHawk.menu: ' || sqlerrm);

end menu;

----- login
procedure login ( i_usid in us.usid%type default null,
                 i_uspw in us.uspw%type default null) is

begin

```



```
        </tr>
    </table>
</form>
</body>
</html>
');

end if;

exception

when others then
    cHawk.msg( i_txt => 'cHawk.login: ' || sqlerrm);

end login;

end cHawk;
/
```