

# **LAMPIRAN A**

**Listing Program**

- Form Server

```

unit UServer;

interface

uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
  Dialogs, StdCtrls, ComCtrls, ExtCtrls, DB, mySQLDbTables;

type
  TfrmServer = class(TForm)
    mySQLDatabase1: TmySQLDatabase;
    qry1: TmySQLQuery;
    Timer1: TTimer;
    Label1: TLabel;
    Label2: TLabel;
    Label3: TLabel;
    Label4: TLabel;
    Label5: TLabel;
    Label6: TLabel;
    Label7: TLabel;
    Label8: TLabel;
    txtTotalBarang: TLabel;
    txtBarangMasuk: TLabel;
    txtSedangLelang: TLabel;
    txtTerlelang: TLabel;
    pb: TProgressBar;
    Label13: TLabel;
    Label15: TLabel;
    txtCek: TEdit;
    btRefresh: TButton;
    btExit: TButton;
    qry2: TmySQLQuery;
    procedure Timer1Timer(Sender: TObject);
    procedure txtCekExit(Sender: TObject);
    procedure FormCreate(Sender: TObject);
    procedure btExitClick(Sender: TObject);
  private
    { Private declarations }
    procedure getData();
    procedure processBarang();
  public
    { Public declarations }
  end;

var
  frmServer: TfrmServer;
  a : integer;

implementation

{$R *.dfm}

procedure TfrmServer.Timer1Timer(Sender: TObject);

```

```

begin
//panggil fungsi
pb.Max := StrToInt(txtCek.Text);
a := a+1;
if a > StrToInt(txtCek.Text) then
begin
a := 0;

// hoorrer
getData();
processBarang();

end;
pb.Position := a;
if a = 0 then
begin
end;
end;

procedure TfrmServer.processBarang();
var
jam : word;
menit : word;
detik : word;
mili : word;
begin
qry1.Close;
qry1.SQL.Clear;
qry1.SQL.Add('select BARANG_STATUS,BARANG_JAM_MULAI,BARANG_ID from
barang where BARANG_STATUS = 0');
qry1.Open;
while qry1.Eof = false do
begin
if qry1.Fields.Fields[0].AsInteger = 0 then
begin
DecodeTime(now,jam,menit,detik,mili);
if qry1.Fields.Fields[1].AsInteger = jam then
begin
qry2.Close;
qry2.SQL.Clear;
qry2.SQL.Add('update barang set BARANG_STATUS = :status where BARANG_ID
= :ID');
qry2.ParamByName('status').AsInteger := 1;
qry2.ParamByName('ID').AsInteger := qry1.Fields.Fields[2].AsInteger;
qry2.ExecSQL;
end;
qry1.Next;
end;
end;
end;

procedure TfrmServer.getData();
begin

```

```

//mengambil nilai statistik, total
//ambil total aja
qry1.Close;
qry1.SQL.Clear;
qry1.SQL.Add('select count(BARANG_ID) from barang');
qry1.Open;
txtTotalBarang.Caption := qry1.Fields.Fields[0].AsString;

qry1.Close;
qry1.SQL.Clear;
qry1.SQL.Add('select count(BARANG_ID) from barang where BARANG_STATUS = 0');
qry1.Open;
txtBarangMasuk.Caption := qry1.Fields.Fields[0].AsString;

qry1.Close;
qry1.SQL.Clear;
qry1.SQL.Add('select count(BARANG_ID) from barang where BARANG_STATUS = 1');
qry1.Open;
txtSedangLelang.Caption := qry1.Fields.Fields[0].AsString;

qry1.Close;
qry1.SQL.Clear;
qry1.SQL.Add('select count(BARANG_ID) from barang where BARANG_STATUS = 2');
qry1.Open;
txtTerlelang.Caption := qry1.Fields.Fields[0].AsString;

//mengambil nilai statistik, total
//ambil total aja
qry1.Close;
qry1.SQL.Clear;
qry1.SQL.Add('select count(BARANG_ID) from barang');
qry1.Open;
txtTotalBarang.Caption := qry1.Fields.Fields[0].AsString;

qry1.Close;
qry1.SQL.Clear;
qry1.SQL.Add('select count(BARANG_ID) from barang where BARANG_STATUS = 0');
qry1.Open;
txtBarangMasuk.Caption := qry1.Fields.Fields[0].AsString;

qry1.Close;
qry1.SQL.Clear;
qry1.SQL.Add('select count(BARANG_ID) from barang where BARANG_STATUS = 1');
qry1.Open;
txtSedangLelang.Caption := qry1.Fields.Fields[0].AsString;

qry1.Close;
qry1.SQL.Clear;
qry1.SQL.Add('select count(BARANG_ID) from barang where BARANG_STATUS = 2');
qry1.Open;
txtTerlelang.Caption := qry1.Fields.Fields[0].AsString;
end;

```

```

procedure TfrmServer.txtCekExit(Sender: TObject);
var
  a : integer;
begin
  a := StrToInt(txtCek.Text);
  pb.Max := a;
end;

procedure TfrmServer.FormCreate(Sender: TObject);
begin
  a := 0;
end;

procedure TfrmServer.btExitClick(Sender: TObject);
begin
  frmServer.Close;
end;

end.

```

- Form operator main menu

```
unit UOperator;
```

```
interface
```

```
uses
```

```
Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
Dialogs, DB, mySQLDbTables, Menus, StdCtrls;
```

```
type
```

```

TfrmOperator = class(TForm)
  mySQLDatabase1: TmySQLDatabase;
  qry1: TmySQLQuery;
  btTambahUser: TButton;
  btTambahBarang: TButton;
  btExit: TButton;
  Label1: TLabel;
  Label2: TLabel;
  Label3: TLabel;
  btHapusUser: TButton;
  btHapusBarang: TButton;
  Label4: TLabel;
  Label5: TLabel;
  procedure btTambahUserClick(Sender: TObject);
  procedure btTambahBarangClick(Sender: TObject);
  procedure btExitClick(Sender: TObject);
  procedure btHapusUserClick(Sender: TObject);
  procedure btHapusBarangClick(Sender: TObject);
private
  { Private declarations }
public
  { Public declarations }
end;

```

```

var
    frmOperator: TfrmOperator;

implementation
    uses UDaftarBarang, UDaftarUser, UHapusUser, UHapusBarang;

{$R *.dfm}

procedure TfrmOperator.btTambahUserClick(Sender: TObject);
begin
    frmDaftarUser.Show;
    frmOperator.Hide;
end;

procedure TfrmOperator.btTambahBarangClick(Sender: TObject);
begin
    frmDaftarBarang.Show;
    frmOperator.Hide;
end;

procedure TfrmOperator.btExitClick(Sender: TObject);
begin
    Application.Terminate;
end;

procedure TfrmOperator.btHapusUserClick(Sender: TObject);
begin
    frmHapusUser.Show;
    frmOperator.Hide;
end;

procedure TfrmOperator.btHapusBarangClick(Sender: TObject);
begin
    frmHapusBarang.Show;
    frmOperator.Hide;
end;

end.

```

- Form operator

```

unit UDaftarUser;

interface

uses
    Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
    Dialogs, StdCtrls, DB, mySQLDbTables, ExtCtrls;

type
    TfrmDaftarUser = class(TForm)
        Panel1: TPanel;
        txtUsername: TLabeledEdit;
        txtUserpass: TLabeledEdit;

```

```

    mySQLDatabase1: TmySQLDatabase;
    qry1: TmySQLQuery;
    Button1: TButton;
    Button2: TButton;
    procedure Button1Click(Sender: TObject);
    procedure Button2Click(Sender: TObject);
private
    { Private declarations }
public
    { Public declarations }
end;

var
    frmDaftarUser: TfrmDaftarUser;

implementation
    Uses UOperator;

{$R *.dfm}

procedure TfrmDaftarUser.Button1Click(Sender: TObject);
begin
    qry1.Close;
    qry1.SQL.Clear;
    qry1.SQL.Add('insert into users (USER_NAME,USER_PASS) values(:NAME,:PASS)');
    qry1.ParamByName('NAME').AsString := txtUsername.Text;
    qry1.ParamByName('PASS').AsString := txtUserpass.Text;
    qry1.ExecSQL;
end;

procedure TfrmDaftarUser.Button2Click(Sender: TObject);
begin
    frmOperator.Show;
    frmDaftarUser.Hide;
end;

end.

```

- Form hapus user

```

unit UHapusUser;

interface

uses
    Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
    Dialogs, StdCtrls, ExtCtrls, DB, mySQLDbTables;

type
    TfrmHapusUser = class(TForm)
        mySQLDatabase1: TmySQLDatabase;
        qry1: TmySQLQuery;
        txtUsername: TLabeledEdit;
        btHapus: TButton;
        btKembali: TButton;
    end;

```

```

    procedure btHapusClick(Sender: TObject);
    procedure btKembaliClick(Sender: TObject);
private
    { Private declarations }
public
    { Public declarations }
end;

var
    frmHapusUser: TfrmHapusUser;

implementation

uses UOperator;

{$R *.dfm}

procedure TfrmHapusUser.btHapusClick(Sender: TObject);
begin
    qry1.Close;
    qry1.SQL.Clear;
    qry1.SQL.Add('select USER_ID from user where USER_NAME = :name');
    qry1.ParamByName('name').AsString := txtUserName.Text;
    qry1.Open;
    if qry1.Eof = false then
    begin
        MessageBox(0,'Barang masih terhubung, tolong hapus user terlebih dahulu','ERROR',0);
    end
    else
    begin
        qry1.Close;
        qry1.SQL.Clear;
        qry1.SQL.Add('delete from users where USER_NAME = :id');
        qry1.ParamByName('id').AsString := txtUsername.Text;
        qry1.ExecSQL;
    end;
end;
end;

procedure TfrmHapusUser.btKembaliClick(Sender: TObject);
begin
    frmOperator.Show;
    frmHapusUser.Hide;
end;

end.

```

- Form daftar barang

```

unit UDaftarBarang;

interface

uses
    Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,

```

Dialogs, StdCtrls, DB, mySQLDbTables, ExtCtrls;

type

```
TfrmDaftarBarang = class(TForm)
    mySQLDatabase1: TmySQLDatabase;
    qry1: TmySQLQuery;
    Panel1: TPanel;
    Label2: TLabel;
    txtNamaBarang: TLabeledEdit;
    txtUserID: TLabeledEdit;
    txtTanggalLelang: TLabeledEdit;
    txtHargaAwal: TLabeledEdit;
    txtBid: TLabeledEdit;
    txtKeterangan: TMemo;
    Button1: TButton;
    Button2: TButton;
    txtJamMulai: TLabeledEdit;
    txtJamBerakhir: TLabeledEdit;
    txtTimeout: TLabeledEdit;
    Label3: TLabel;
    Label4: TLabel;
    Label5: TLabel;
    procedure Button1Click(Sender: TObject);
    procedure Button2Click(Sender: TObject);
private
    { Private declarations }
public
    { Public declarations }
end;
```

var

```
frmDaftarBarang: TfrmDaftarBarang;
```

implementation

```
uses UOperator;
```

```
{ $R *.dfm }
```

```
procedure TfrmDaftarBarang.Button1Click(Sender: TObject);
```

```
begin
```

```
    qry1.Close;
```

```
    qry1.SQL.Clear;
```

```
    qry1.SQL.Add('insert into
```

```
barang(BARANG_NAMA,USER_ID,BARANG_TANGGAL_LELANG,BARANG_HARGA
,BARANG_NILAI_TAWAR,BARANG_KETERANGAN,BARANG_JAM_MULAI,BARAN
G_JAM_SELESAI,BARANG_STATUS,BARANG_TIMEOUT) values');
```

```
qry1.SQL.Add('(:NAMA,:ID,:TANGGAL_LELANG,:HARGA,:BID,:KETERANGAN,:JAM
_MULAI,:JAM_SELESAI,:STATUS,:TIMEOUT);');
```

```
    qry1.ParamByName('NAMA').AsString:=txtNamaBarang.Text;
```

```
    qry1.ParamByName('ID').AsInteger:=StrToInt(txtUserID.Text);
```

```
    qry1.ParamByName('TANGGAL_LELANG').AsDate:=StrToDate(txtTanggalLelang.Text);
```

```
    qry1.ParamByName('HARGA').AsInteger:=StrToInt(txtHargaAwal.Text);
```

```
    qry1.ParamByName('BID').AsInteger:=StrToInt(txtBid.Text);
```

```
    qry1.ParamByName('KETERANGAN').AsString:=txtKeterangan.Text;
```

```

    qry1.ParamByName('JAM_MULAI').AsInteger:= StrToInt(txtJamMulai.Text);
    qry1.ParamByName('JAM_SELESAI').AsInteger := StrToInt(txtJamBerakhir.Text);
    qry1.ParamByName('STATUS').AsInteger := 0;
    qry1.ParamByName('TIMEOUT').AsInteger := StrToInt(txtTimeout.Text);
    qry1.ExecSQL;
end;

procedure TfrmDaftarBarang.Button2Click(Sender: TObject);
begin
    frmDaftarBarang.Hide;
    frmOperator.Show;
end;

end.

```

- Form hapus barang

```

unit UHapusBarang;

interface

uses
    Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
    Dialogs, DB, MySQLDbTables, StdCtrls, ExtCtrls;

type
    TfrmHapusBarang = class(TForm)
        btHapus: TButton;
        btKembali: TButton;
        mySQLDatabase1: TmySQLDatabase;
        txtNamaBarang: TLabeledEdit;
        qry1: TmySQLQuery;
        procedure btKembaliClick(Sender: TObject);
        procedure btHapusClick(Sender: TObject);
    private
        { Private declarations }
    public
        { Public declarations }
    end;

var
    frmHapusBarang: TfrmHapusBarang;

implementation

uses UOperator;

{$R *.dfm}

procedure TfrmHapusBarang.btHapusClick(Sender: TObject);
begin
    qry1.Close;
    qry1.SQL.Clear;
    qry1.SQL.Add('select USER_ID from barang where BARANG_NAMA = :brg');
    qry1.ParamByName('brg').AsString := txtBarangNama.Text;
    qry1.Open;

```

```

if qry1.Eof = false then
begin
    MessageBox(0,'Barang masih terhubung, tolong hapus user terlebih dahulu','ERROR',0);
end
else
begin
    qry1.Close;
    qry1.SQL.Clear;
    qry1.SQL.Add('delete from barang where BARANG_NAMA = :brg');
    qry1.ParamByName('brg').AsString := txtNamaBarang.Text;
    qry1.ExecSQL;
end;
end;
end;

procedure TfrmHapusBarang.btKembaliClick(Sender: TObject);
begin
    frmOperator.Show;
    frmHapusBarang.Close;
end;

end.

```

- Form user login

```

unit UUserLogin;

interface

uses
    Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
    Dialogs, DB, mySQLDbTables, StdCtrls, ExtCtrls, iniFiles;

type
    TfrmLogin = class(TForm)
        Panel1: TPanel;
        txtUsername: TLabeledEdit;
        txtPassword: TLabeledEdit;
        btLogin: TButton;
        mySQLDatabase1: TmySQLDatabase;
        qry1: TmySQLQuery;
        btQuit: TButton;
        procedure btLoginClick(Sender: TObject);
        procedure btQuitClick(Sender: TObject);
        procedure FormCreate(Sender: TObject);
    private
        { Private declarations }
    public
        { Public declarations }
    end;

var
    frmLogin: TfrmLogin;
    user_id : integer;
    ipaddress : string;

```

```

konfig : TIniFile;

implementation
  Uses UMainMenu, UBidRoom;
{$R *.dfm}

procedure TfrmLogin.btLoginClick(Sender: TObject);
begin
  qry1.Close;
  qry1.SQL.Clear;
  qry1.SQL.Add('select USER_NAME from users where USER_NAME = :a');
  qry1.ParamByName('a').AsString := txtUsername.Text;
  qry1.Open;
  if qry1.Eof = false then
    //false
    begin
      qry1.Close;
      qry1.SQL.Clear;
      qry1.SQL.Add('select USER_PASS,USER_ID from users where USER_NAME = :a');
      qry1.ParamByName('a').AsString := txtUsername.Text;
      qry1.Open;
      if qry1.Fields[0].AsString = txtPassword.Text then
        begin
          user_id := qry1.Fields.Fields[1].AsInteger;
          frmLogin.Hide;
          frmMainMenu.Show;
        end
      else
        begin
          MessageBox(0,'Password Salah !!','ERROR !!',0);
        end;
      end
    else
      begin
        //true
        MessageBox(0,'User tidak ditemukan !!','ERROR !!',0);
      end;
    end;
end;

procedure TfrmLogin.btQuitClick(Sender: TObject);
begin
  Application.Terminate;
end;

procedure TfrmLogin.FormCreate(Sender: TObject);
begin
  mySQLDatabase1.Connected := false;
  mySQLDatabase1.KeepConnection := false;

  konfig := TIniFile.Create(ExtractFilePath(Application.ExeName) + 'konfig.ini');

  ipaddress := konfig.ReadString('setting','IPAddress','localhost');

  konfig.Free;

```

```

if ipaddress = " then
begin
    ShowMessage('Konfigurasi kosong. Digunakan IP Address localhost.');
```

end;

```

// setiap form dengan komponen myDatabase
mySQLDatabase1.Host := ipaddress;

mySQLDatabase1.Connected := true;
mySQLDatabase1.KeepConnection := true;
end;

end.
```

- Form user main menu

```

unit UMainMenu;

interface

uses
    Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
    Dialogs, DB, mySQLDbTables, StdCtrls, ExtCtrls, iniFiles;

type
    TfrmMainMenu = class(TForm)
        Panel1: TPanel;
        Label2: TLabel;
        Label3: TLabel;
        Panel2: TPanel;
        Label4: TLabel;
        Label5: TLabel;
        Label1: TLabel;
        txtCariBarang: TEdit;
        btCariBarang: TButton;
        lbBarang: TListBox;
        cbUrut: TComboBox;
        btAscending: TRadioButton;
        btDescending: TRadioButton;
        txtNamaBarang: TLabeledEdit;
        txtPenjual: TLabeledEdit;
        txtStatusBarang: TLabeledEdit;
        txtTanggalLelang: TLabeledEdit;
        txtHarga: TLabeledEdit;
        txtBid: TLabeledEdit;
        btJoin: TButton;
        btExit: TButton;
        memoKeterangan: TMemo;
        mySQLDatabase1: TmySQLDatabase;
        qry1: TmySQLQuery;
        txtJamMulai: TLabeledEdit;
        txtJamSelesai: TEdit;
        Label6: TLabel;
        Timer1: TTimer;
        Label7: TLabel;
```

```

txtJam: TLabel;
btRefresh: TButton;
procedure FormCreate(Sender: TObject);
procedure lbBarangClick(Sender: TObject);
procedure btCariBarangClick(Sender: TObject);
procedure btJoinClick(Sender: TObject);
procedure btExitClick(Sender: TObject);
procedure cbUrutChange(Sender: TObject);
procedure Timer1Timer(Sender: TObject);
procedure btRefreshClick(Sender: TObject);
private
  { Private declarations }
public
  { Public declarations }
end;

var
  frmMainMenu: TfrmMainMenu;
  brgID : integer;

implementation
  uses UUserLogin,UBidRoom;

{$R *.dfm}

procedure TfrmMainMenu.FormCreate(Sender: TObject);
begin
  qry1.Close;
  qry1.SQL.Clear;
  qry1.SQL.Add('select BARANG_NAMA from barang');
  qry1.Open;
  while not qry1.Eof do
  begin
    lbBarang.Items.Add(qry1.Fields[0].AsString);
    qry1.Next;
  end;
  qry1.Close;
  // setiap form dengan komponen myDatabase
  mySQLDatabase1.Host := ipaddress;
end;

procedure TfrmMainMenu.lbBarangClick(Sender: TObject);
begin
  qry1.Close;
  qry1.SQL.Clear;
  qry1.SQL.Add('select
BARANG_NAMA,USER_ID,BARANG_STATUS,BARANG_TANGGAL_LELANG,BARA
NG_JAM_MULAI,BARANG_JAM_SELESAI,BARANG_HARGA,BARANG_NILAI_TAW
AR,BARANG_KETERANGAN from barang where BARANG_NAMA = :LB');
  qry1.ParamByName('LB').AsString := lbBarang.Items.Strings[lbBarang.ItemIndex];
  qry1.Open;
  txtNamaBarang.Text := qry1.Fields[0].AsString;
  txtPenjual.Text := qry1.Fields[1].AsString;
  txtStatusBarang.Text := qry1.Fields[2].AsString;
  txtTanggalLelang.Text := qry1.Fields[3].AsString;

```

```

txtJamMulai.Text := (qry1.Fields[4].AsString)+':00';
txtJamSelesai.Text := qry1.Fields[5].AsString+':00';
txtHarga.Text := qry1.Fields[6].AsString;
txtBid.Text := qry1.Fields[7].AsString;
memoKeterangan.Text := qry1.Fields[8].AsString;
if qry1.Fields[2].AsInteger = 0 then
begin
    txtStatusBarang.Text := 'Belum Dimulai';
end;
if qry1.Fields[2].AsInteger = 1 then
begin
    txtStatusBarang.Text := 'Sudah Dimulai';
end;
if qry1.Fields[2].AsInteger = 2 then
begin
    txtStatusBarang.Text := 'Terjual';
end;
timer1.Enabled := true;
end;

procedure TfrmMainMenu.btCariBarangClick(Sender: TObject);
begin
    //nyari barang
    qry1.Close;
    qry1.SQL.Clear;
    qry1.SQL.Add('select BARANG_NAMA from barang where BARANG_NAMA =
:namabarang');
    qry1.ParamByName('namabarang').AsString := txtCariBarang.Text;
    qry1.Open;
    //ditampilkan ke listbox
    lbBarang.Items.Clear;
    while not qry1.Eof do
    begin
        lbBarang.Items.Add(qry1.Fields[0].AsString);
        qry1.Next;
    end;
    qry1.Close;
end;

procedure TfrmMainMenu.btJoinClick(Sender: TObject);
begin
    if lbBarang.ItemIndex > -1 then
    begin
        qry1.Close;
        qry1.SQL.Clear;
        qry1.SQL.Add('select BARANG_ID from barang where BARANG_NAMA = :nama');
        qry1.ParamByName('nama').AsString := lbBarang.Items.Strings[lbBarang.ItemIndex];
        qry1.Open;
        brgID := qry1.Fields[0].Value;
        frmBidRoom.Show;
        frmBidRoom.txtKeterangan.Caption := memoKeterangan.Text;
        frmMainMenu.Close;
    end
    else
    begin

```

```

        MessageBox(0,'Pilih Salah Satu Barang','ERROR !!',0);
    end;
end;

procedure TfrmMainMenu.btExitClick(Sender: TObject);
begin
    frmLogin.Show;
    frmMainMenu.Close;
end;

procedure TfrmMainMenu.cbUrutChange(Sender: TObject);
begin
    qry1.Close;
    qry1.SQL.Clear;
    if (cbUrut.ItemIndex = 0) and (btAscending.Checked = true) then
        begin
            qry1.SQL.Add('select BARANG_NAMA from barang order by BARANG_NAMA
ASC');
            qry1.Open;
            lbBarang.Items.Clear;
            while not qry1.Eof do
                begin
                    lbBarang.Items.Add(qry1.Fields[0].AsString);
                    qry1.Next;
                end;
            qry1.Close;
        end
    else if (cbUrut.ItemIndex = 0) and (btDescending.Checked = true) then
        begin
            qry1.SQL.Add('select BARANG_NAMA from barang order by BARANG_NAMA
DESC');
            qry1.Open;
            lbBarang.Items.Clear;
            while not qry1.Eof do
                begin
                    lbBarang.Items.Add(qry1.Fields[0].AsString);
                    qry1.Next;
                end;
            qry1.Close;
        end
    else if (cbUrut.ItemIndex = 1) and (btAscending.Checked = true) then
        begin
            qry1.SQL.Add('select BARANG_NAMA from barang order by BARANG_HARGA
ASC');
            qry1.Open;
            lbBarang.Items.Clear;
            while not qry1.Eof do
                begin
                    lbBarang.Items.Add(qry1.Fields[0].AsString);
                    qry1.Next;
                end;
            qry1.Close;
        end
    else if (cbUrut.ItemIndex = 1) and (btDescending.Checked = true) then
        begin

```

```

        qry1.SQL.Add('select BARANG_NAMA from barang order by BARANG_HARGA
DESC');
        qry1.Open;
        lbBarang.Items.Clear;
        while not qry1.Eof do
            begin
                lbBarang.Items.Add(qry1.Fields[0].AsString);
                qry1.Next;
            end;
        qry1.Close;
    end
    else if (cbUrut.ItemIndex = 2) and (btAscending.Checked = true) then
        begin
            qry1.SQL.Add('select BARANG_NAMA from barang order by
BARANG_TANGGAL_LELANG ASC');
            qry1.Open;
            lbBarang.Items.Clear;
            while not qry1.Eof do
                begin
                    lbBarang.Items.Add(qry1.Fields[0].AsString);
                    qry1.Next;
                end;
            qry1.Close;
        end
    else if (cbUrut.ItemIndex = 2) and (btDescending.Checked = true) then
        begin
            qry1.SQL.Add('select BARANG_NAMA from barang order by
BARANG_TANGGAL_LELANG DESC');
            qry1.Open;
            lbBarang.Items.Clear;
            while not qry1.Eof do
                begin
                    lbBarang.Items.Add(qry1.Fields[0].AsString);
                    qry1.Next;
                end;
            qry1.Close;
        end;
    end;
end;
procedure TfrmMainMenu.Timer1Timer(Sender: TObject);
var
    Sekarang : TDateTime;
    formattedDate : String;
    waktu_sekarang : word;
    waktu_limit : word;
    myHour, myMin, mySec, myMilli : Word;
begin
    sekarang := now;
    DateTimeToString(formattedDate, 't', Sekarang);
    txtJam.Caption := formattedDate;
    DecodeTime(Sekarang, myHour, myMin, mySec, myMilli);

    qry1.Close;
    qry1.SQL.Clear;
    qry1.SQL.Add('select BARANG_STATUS,BARANG_JAM_MULAI from barang where
BARANG_NAMA = :barang');

```

```

    qry1.ParamByName('barang').AsString := lbBarang.Items.Strings[lbBarang.ItemIndex];
qry1.Open;
waktu_sekarang := (myHour*60)+myMin;
waktu_limit := (qry1.Fields.Fields[1].AsInteger*60) + 15;
if qry1.Fields.Fields[0].AsInteger = 1 then
begin
if waktu_sekarang < waktu_limit then
    begin
        btJoin.Enabled := true;
    end
else
    begin
        btJoin.Enabled := false;
    end;
end
else
    begin
        btJoin.Enabled := false;
    end;
end;
end;

procedure TfrmMainMenu.btRefreshClick(Sender: TObject);
begin
    qry1.Close;
    qry1.SQL.Clear;
    qry1.SQL.Add('select BARANG_NAMA from barang');
    qry1.Open;
    lbBarang.Items.Clear;
    while not qry1.Eof do
    begin
        lbBarang.Items.Add(qry1.Fields[0].AsString);
        qry1.Next;
    end;
    qry1.Close;
end;

end.

```

- Form bid room

```
unit UBidRoom;
```

```
interface
```

```
uses
```

```
Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
Dialogs, StdCtrls, ExtCtrls, DB, mySQLDbTables;
```

```
type
```

```
TfrmBidRoom = class(TForm)
    Panel1: TPanel;
    Label1: TLabel;
    Label2: TLabel;
    txtBidder: TLabel;
    txtNilaiBid: TLabel;
    txtKeteranganWaktu: TLabel;

```

```

txtTimer: TLabel;
GroupBox1: TGroupBox;
txtKeterangan: TLabel;
btnBid: TButton;
mySQLDatabase1: TmySQLDatabase;
qry1: TmySQLQuery;
Timer1: TTimer;
procedure Timer1Timer(Sender: TObject);
procedure btnBidClick(Sender: TObject);
procedure FormCreate(Sender: TObject);
private
    { Private declarations }
public
    { Public declarations }
end;

var
    frmBidRoom: TfrmBidRoom;
    a : integer;
    b : integer;
    bidder : integer;

implementation
    uses UMainMenu, UUserLogin, UPemenang;

{$R *.dfm}

procedure TfrmBidRoom.Timer1Timer(Sender: TObject);
var
    kosong : boolean;
    waktu_sekarang : TDateTime;
    waktu_tabel : TDateTime;
    perhitungan_raw : integer;

    // timeout
    timeout_detik_raw : word;

    // sekarang
    skrg_jam : word;
    skrg_menit : word;
    skrg_detik : word;
    skrg_msec : word;
    skrg_detik_raw : word;

    // tabel
    tabel_jam : word;
    tabel_menit : word;
    tabel_detik : word;
    tabel_msec : word;
    tabel_detik_raw : word;

    // tampilan
    disp_jam : word;
    disp_menit : word;
    disp_detik : word;

```

```

disp_str : string;

begin
  qry1.Close;
  qry1.SQL.Clear;
  qry1.SQL.Add('select
BARANG_BIDDER,BARANG_HARGA,BARANG_LSTBID,BARANG_TIMEOUT from
barang where BARANG_ID = :ID');
  qry1.ParamByName('ID').AsInteger := brgID;
  qry1.Open;
  if qry1.Fields.Fields[1].Value > 0 then
  begin
    txtNilaiBid.Caption := IntToStr(qry1.Fields.Fields[1].Value);
    kosong := qry1.Fields.Fields[2].IsNull;
    bidder := qry1.Fields.Fields[0].AsInteger;

    if kosong = false then
    begin
      // sekarang
      waktu_sekarang := Now;
      DecodeTime(waktu_sekarang,skrg_jam,skrg_menit,skrg_detik,skrg_msec);
      skrg_detik_raw := (skrg_jam * 3600) + (skrg_menit * 60) + skrg_detik;

      // tabel
      waktu_tabel := StrToTime(qry1.Fields.Fields[2].AsString);
      DecodeTime(waktu_tabel,tabel_jam,tabel_menit,tabel_detik,tabel_msec);
      tabel_detik_raw := (tabel_jam * 3600) + (tabel_menit * 60) + tabel_detik;

      // timeout
      timeout_detik_raw := qry1.Fields.Fields[3].AsInteger;

      // perhitungan waktu tampilan
      perhitungan_raw := (tabel_detik_raw+timeout_detik_raw)-skrg_detik_raw;
      //txtTimer.Caption := IntToStr(perhitungan_raw);

      if perhitungan_raw = 0 then
      begin
        qry1.Close;
        qry1.SQL.Clear;
        qry1.SQL.Add('update barang set BARANG_STATUS = :status where BARANG_ID =
:bid');
        qry1.ParamByName('status').AsInteger := 2;
        qry1.ParamByName('bid').AsInteger := brgID;
        qry1.ExecSQL;
        frmPemenang.Show;
        frmBidRoom.Close;
      end;

      // konversi dari integer ke waktu
      //integer -> string -> time
      disp_jam := trunc(perhitungan_raw/3600);
      disp_menit := trunc(perhitungan_raw/60)-(trunc(perhitungan_raw/3600)*60);

```

```

disp_detik := perhitungan_raw-(trunc(perhitungan_raw/3600)*3600)-
(trunc((perhitungan_raw-(trunc(perhitungan_raw/3600)*3600))/60)*60);
disp_str := IntToStr(disp_jam)+'.'+IntToStr(disp_menit)+'.'+IntToStr(disp_detik);
txtTimer.Caption := disp_str;

end;

qry1.Close;
qry1.SQL.Clear;
qry1.SQL.Add('select USER_NAME from users where USER_ID = :bidder');
  qry1.ParamByName('bidder').AsInteger := bidder;
qry1.Open;
txtBidder.Caption := qry1.Fields.Fields[0].AsString;

end;

end;

procedure TfrmBidRoom.btnBidClick(Sender: TObject);
var
  Nilai_Barang : Integer;
begin

  qry1.Close;
  qry1.SQL.Clear;
  qry1.SQL.Add('select BARANG_HARGA,BARANG_NILAI_TAWAR from barang where
BARANG_ID = :ID');
  qry1.ParamByName('ID').AsInteger := brgID;
  qry1.Open;
  Nilai_barang := qry1.Fields.Fields[0].AsInteger + qry1.Fields.Fields[1].AsInteger;

  qry1.Close;
  qry1.SQL.Clear;
  qry1.SQL.Add('update barang set BARANG_LSTBID = :waktu, BARANG_BIDDER =
:bidder, BARANG_HARGA = :harga_baru where BARANG_ID =:bid');
  qry1.ParamByName('waktu').AsString := TimeToStr(Time);
  qry1.ParamByName('bid').AsInteger := brgID;
  qry1.ParamByName('bidder').AsInteger := user_id;
  qry1.ParamByName('harga_baru').AsInteger := Nilai_Barang;
  qry1.ExecSQL;

end;

procedure TfrmBidRoom.FormCreate(Sender: TObject);
begin
  Timer1.Enabled := true;
  // setiap form dengan komponen myDatabase
  mySQLDatabase1.Host := ipaddress;
end;

end.

```

- Form pemenang

```

unit UPemenang;

```

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,  
Dialogs, StdCtrls, DB, mySQLDbTables;

type

TfrmPemenang = class(TForm)  
Label1: TLabel;  
txtPemenang: TLabel;  
btOK: TButton;  
mySQLDatabase1: TmySQLDatabase;  
qry1: TmySQLQuery;  
procedure btOKClick(Sender: TObject);  
procedure FormShow(Sender: TObject);  
procedure FormCreate(Sender: TObject);

private

{ Private declarations }

public

{ Public declarations }

end;

var

frmPemenang: TfrmPemenang;

implementation

uses UBidRoom, UMainMenu, UUserLogin;

{ \$R \*.dfm }

procedure TfrmPemenang.btOKClick(Sender: TObject);

begin

frmMainMenu.Show;

frmPemenang.Close;

end;

procedure TfrmPemenang.FormShow(Sender: TObject);

begin

txtPemenang.Caption := frmBidRoom.txtBidder.Caption;

end;

procedure TfrmPemenang.FormCreate(Sender: TObject);

begin

// setiap form dengan komponen myDatabase

mySQLDatabase1.Host := ipaddress;

end;

end.

# **LAMPIRAN B**

## **Dokumentasi Percobaan**

- Program dijalankan



- Tampilan Login 1



- Tampilan Login 2



- Tampilan Login 3



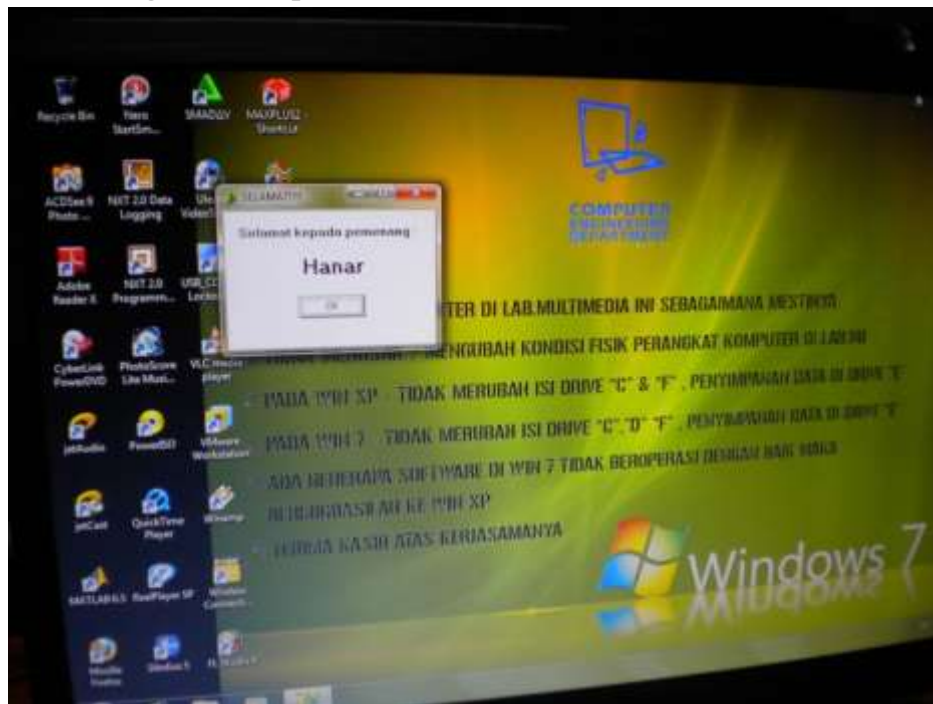
- Client Login



- Lelang Dimulai



- Pemenang 1 Ditampilkan



- Pemenang Lelang 2

