

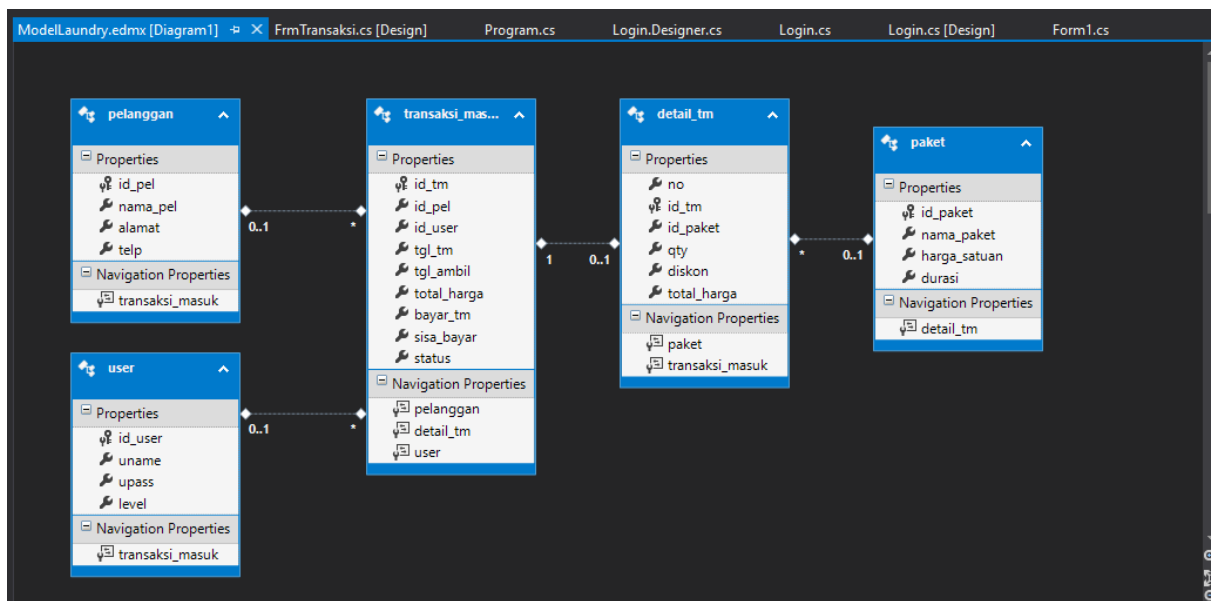
Pemrograman visual

Aplikasi Laundry

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D4 LJ PJJ | POLITEKNIK ELEKTRONIKA NEGERI SURABAYA

Desain database (SQL SERVER)



Gambar diatas merupakan desain database dari aplikasi Laundry ini, yang menggunakan DBMS SQLSERVER. Kemudian untuk koneksi pada aplikasi ini menggunakan entity framework.

FORM LOGIN

Desain Form Login

The login form has a teal header with a user icon and a lock icon. The text "Log in" is displayed in large white font, followed by the instruction "masukkan nama dan password Anda" in smaller white font. Below the header, there are two input fields: one for the username (with a user icon) and one for the password (with a key icon). A teal "Login" button is located at the bottom right of the form.

Source code form login

```
using System;
using System.Data;
using System.Linq;
using System.Windows.Forms;

namespace laundry_1._0
{
    public partial class Login : Form
    {
        public Login()
        {
            InitializeComponent();
        }

        //Button Login
        private void button1_Click(object sender, EventArgs e)
        {
            if (IsValidUser(txtUsername.Text, TxtPass.Text))
            {
                //User is valid
                MessageBox.Show("Login Sukses!", "Login");
                this.Close();
            }
            else {
                //User is not valid
                MessageBox.Show("Login Gagal!", "Login");
                txtUsername.Text = "";
                TxtPass.Text = "";
            }
        }

        //Method validasi username dan password untuk login
        private bool IsValidUser(string userName, string password)
        {
            laundryEntities1 context = new laundryEntities1();
            var query = from p in context.users //query
                        where p.uname == userName
                        && p.upass == password
                        select p;

            if (query.Any())
            {
                return true;
            }
            else
            {
                return false;
            }
        }

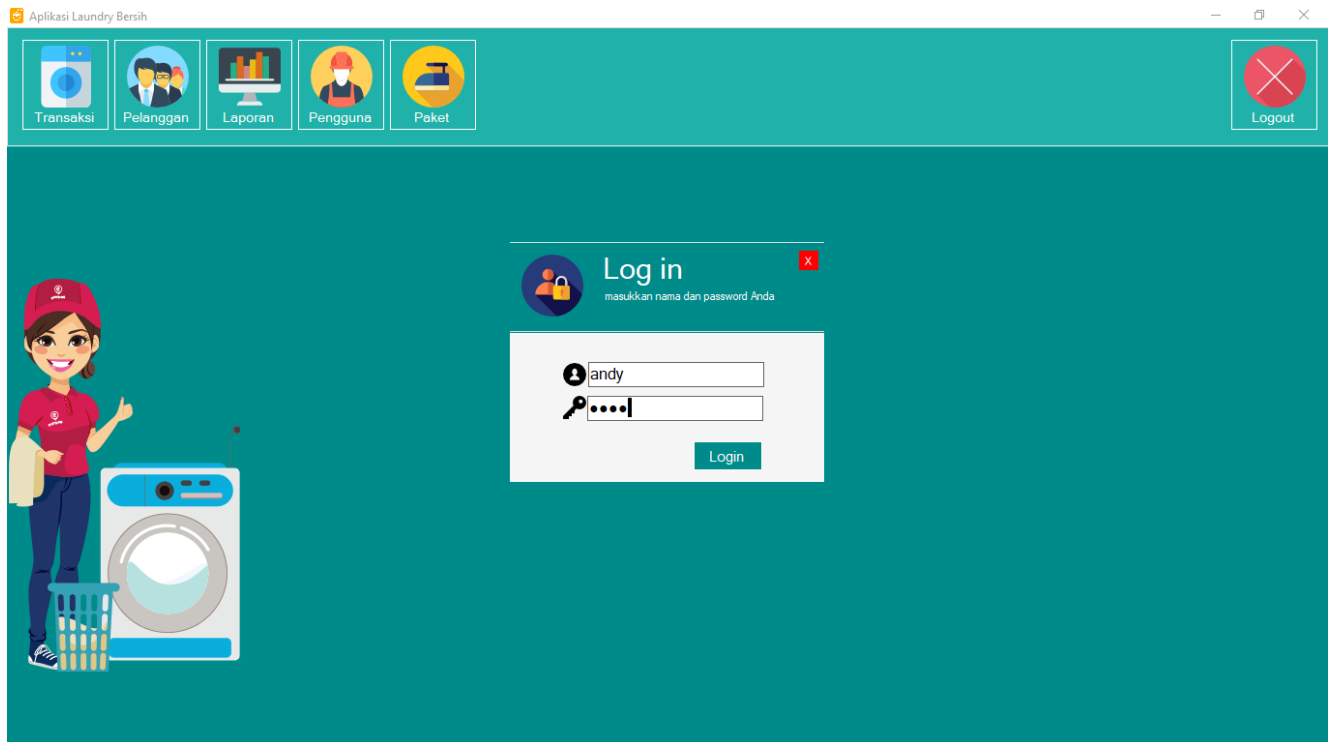
        //Button untuk menutup aplikasi
        private void button1_Click_1(object sender, EventArgs e)
        {
            //MessageBox konfirmasi menutup aplikasi
            DialogResult dialogResult = MessageBox.Show("Apakah Anda yakin keluar dari aplikasi ini", "Konfirmasi", MessageBoxButtons.YesNo);
            if (dialogResult == DialogResult.Yes)
            {
                //do something
                System.Windows.Forms.Application.Exit();
            }
        }
    }
}
```

```

    }
    else if (dialogResult == DialogResult.No)
    {
        //do something else
    }
}
}
}

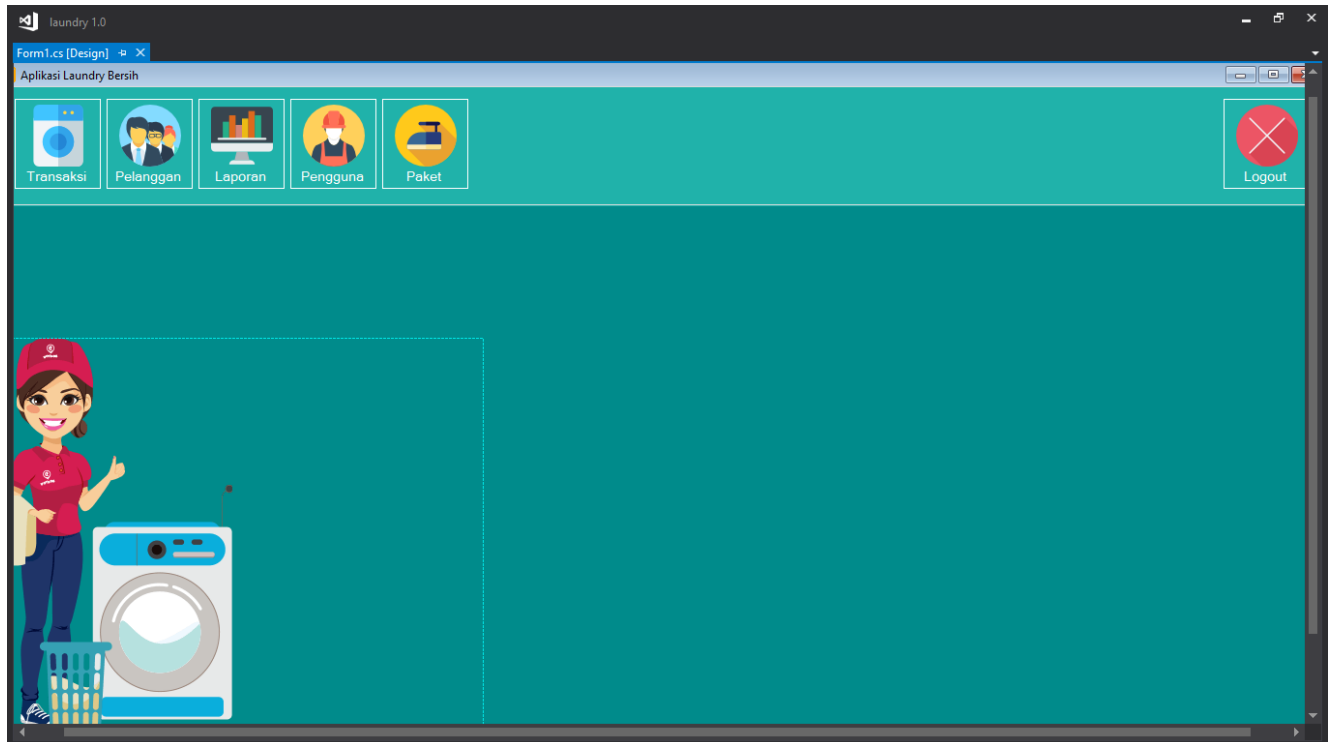
```

Output form login:



FORM UTAMA

Desain Form Utama



Source code menu utama:

```
using System;
using System.Windows.Forms;

namespace laundry_1._0
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
            //pemanggilan method konfirmasi keluar aplikasi
            this.Closing += new
System.ComponentModel.CancelEventHandler(this.FormClosingEventCancel_Closing);
        }
        //Method untuk konfirmasi keluar aplikasi
        private void FormClosingEventCancel_Closing(object sender,
System.ComponentModel.CancelEventArgs e)
        {
            //MessageBox konfirmasi keluar aplikasi
            DialogResult dr = MessageBox.Show("Apakah Anda yakin keluar dari aplikasi ini?",
"Konfirmasi", MessageBoxButtons.YesNo);
            if (dr == DialogResult.No) //percangan messageBox konfirmasi
                e.Cancel = true;
            else
                e.Cancel = false;
        }
    }
}
```

```

    }

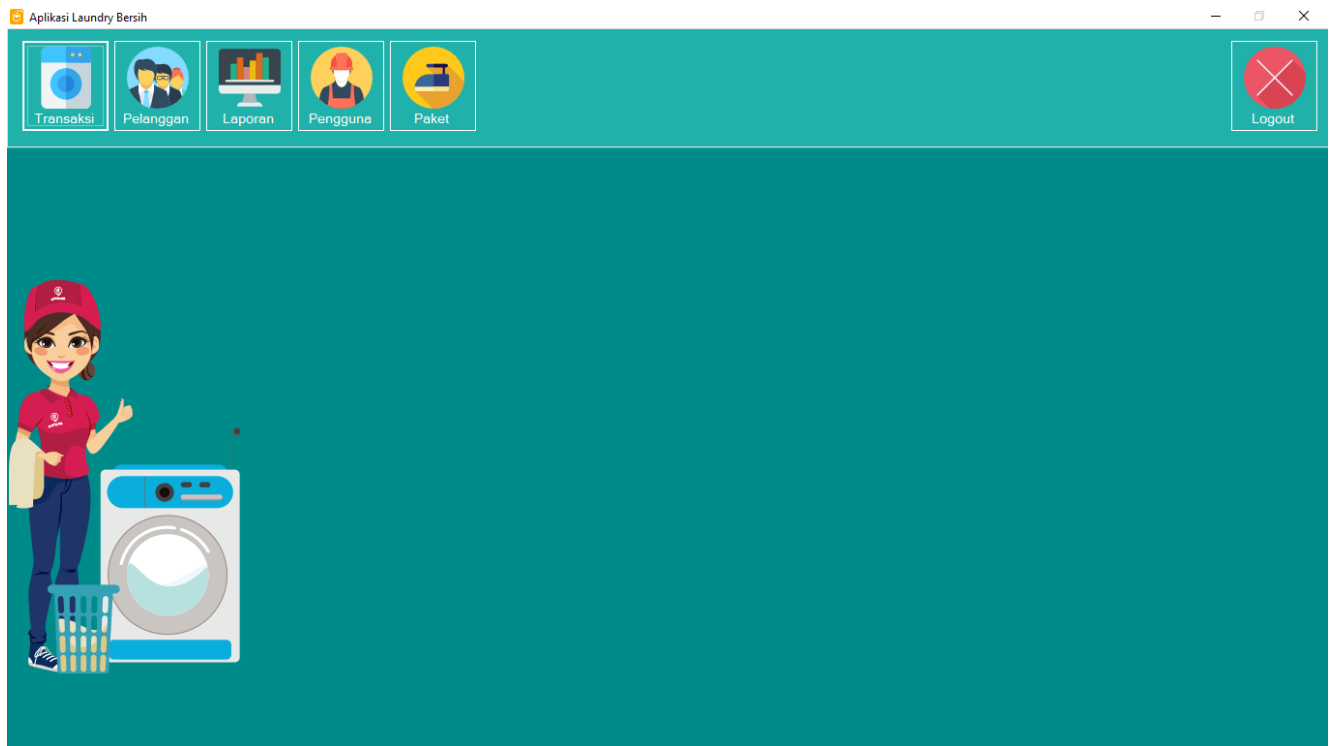
    //Method yang dijalankan ketika form di load
    private void Form1_Load(object sender, EventArgs e)
    {
        Login L = new Login(); //untuk menginisiasi form login
        L.ShowDialog(); //untuk menampilkan form login
        this.MaximizeBox = false; //untuk mendisable button max/min
    }
    private void Form1_FormClosing(object sender, FormClosingEventArgs e)
    {}

    //Button Logout
    private void button6_Click(object sender, EventArgs e)
    {
        Login L = new Login(); //untuk menginisiasi form login
        L.ShowDialog(); //untuk menampilkan form login
    }

    //Button untuk membuka form Transaksi
    private void button1_Click(object sender, EventArgs e)
    {
        FrmTransaksi FT = new FrmTransaksi(); //untuk menginisiasi form Transaksi
        FT.ShowDialog(); //untuk menampilkan form Transaksi
    }
    //Button untuk membuka form Pelanggan
    private void button5_Click(object sender, EventArgs e)
    {
        FrmPelanggan FPel = new FrmPelanggan(); //untuk menginisiasi form Pelanggan
        FPel.ShowDialog(); //untuk menampilkan form Pelanggan
    }
    //Button untuk membuka form Laporan Transaksi
    private void button2_Click(object sender, EventArgs e)
    {
        FrmLaporan FL = new FrmLaporan(); //untuk menginisiasi form Transaksi
        FL.ShowDialog(); //untuk menampilkan form Transaksi
    }
    //Button untuk membuka form Pengguna / user aplikasi
    private void button3_Click(object sender, EventArgs e)
    {
        FrmPengguna FP = new FrmPengguna(); //untuk menginisiasi form Pengguna
        FP.ShowDialog(); //untuk menampilkan form Pengguna
    }
    //Button untuk membuka form Paket Laundry
    private void button4_Click(object sender, EventArgs e)
    {
        FrmPaket FPaket = new FrmPaket(); //untuk menginisiasi form Paket Laundry
        FPaket.ShowDialog(); //untuk menampilkan form Paket Laundry
    }
}
}

```

Output form menu utama:



FORM TRANSAKSI

Desain Form Transaksi

The screenshot shows a Windows application window titled "Transaksi" with a sub-header "Transaksi Laundry" and the text "Melakukan transaksi laundry masuk". The form contains the following elements:

- Input Fields:**
 - No Faktur: Text box
 - Nama Pelanggan: Dropdown menu
 - Telp: Text box
 - Nama Paket: Dropdown menu
 - Berat: Text box with "Kg" unit
 - Diskon: Text box with "%" unit
 - Harga/Kg: Text box
- Summary Section:**
 - Total: Text box
 - Bayar: Text box
 - Kembali: Text box
- Action Buttons:**
 - Tambah (Green plus icon)
 - Hapus (Red X icon)
 - Batal (Green circular arrow icon)
 - Selesai (Green checkmark icon)
- Data Grid:** A table with 6 columns: No, Nama Paket, Berat, Diskon, Sub Total. The first row is highlighted with an asterisk (*).

Source code form transaksi:

```
using System;
using System.Linq;
using System.Windows.Forms;

namespace laundry_1._0
{
    public partial class FrmPaket : Form
    {
        public FrmPaket()
        {
            InitializeComponent();
            DisplayData(); //pemanggilan method untuk menampilkan data pada datagridview
        }

        //Button Simpan
        private void BtnSimpan_Click(object sender, EventArgs e)
        {
            //koneksi menggunakan entity framework
            var contex = new laundryEntities1();
            string query = "INSERT INTO [dbo].[paket] VALUES ('" + TxtID.Text + "', '" +
            TxtNamaPaket.Text + "', '" + TxtHarga.Text + "', '" + TxtDurasi.Text + "')";
            contex.Database.ExecuteSqlCommand(query);
            string urut = query;
            Clear(); //pemanggilan method untuk hapus isian textbox
            DisplayData(); //pemanggilan method untuk menampilkan data pada datagridview
        }
    }
}
```



```

        MessageBox.Show("Data Berhasil Ditambahkan!"); //MessageBox Informasi
    }

    //=====
    //Method Display Data
    //-----
    private void DisplayData()
    {
        var contex = new laundryEntities1();
        laundryEntities1 laundry = new laundryEntities1();
        var item = laundry.pakets.SqlQuery("Select id_paket, nama_paket,harga_satuan,
durasi from paket").ToList();
        dataGridView1.DataSource = item;
    }

    //=====
    //Method Clear
    //-----
    public void Clear()
    {
        TxtID.Text = "";
        TxtNamaPaket.Text = "";
        TxtHarga.Text = "";
        TxtDurasi.Text = "";
    }
    //Button memperbarui data paket dalam database
    private void BtnUbah_Click(object sender, EventArgs e)
    {
        var contex = new laundryEntities1();
        string query = "UPDATE [dbo].[paket] SET [nama_paket] = '" + TxtNamaPaket.Text +
        "',[harga_satuan] = '" + TxtHarga.Text + "',[durasi] = '" + TxtDurasi.Text + "' WHERE
id_paket = " + Convert.ToInt32(TxtID.Text);
        contex.Database.ExecuteSqlCommand(query);
        Clear();//pemanggilan method untuk hapus isian textbox
        DisplayData();//pemanggilan method untuk menampilkan data pada datagridview
        MessageBox.Show("Data berhasil diperbarui!");//MessageBox Informasi
    }
    //Button Hapus data
    private void BtnHapus_Click(object sender, EventArgs e)
    {
        //MessageBox Konfirmasi hapus data
        DialogResult dialogResult = MessageBox.Show("Yakin menghapus data?",
        "Konfirmasi", MessageBoxButtons.YesNo);
        if (dialogResult == DialogResult.Yes)
        {
            //do something / dilakukan konfirmasi jika yes
            var contex = new laundryEntities1(); //inisiasi koneksi
            string query = "DELETE FROM [dbo].[paket] WHERE id_paket = " +
            Convert.ToInt32(TxtID.Text);
            contex.Database.ExecuteSqlCommand(query);
            Clear();//pemanggilan method untuk hapus isian textbox
            DisplayData();//pemanggilan method untuk menampilkan data pada datagridview
            MessageBox.Show("Data berhasil dihapus!");//MessageBox Informasi
        }
        else if (dialogResult == DialogResult.No)
        {
            //do something else
            //Jika konfirmasi NO tidak dilakukan apa-apa
        }
    }
}

```

```

private void BtnBatal_Click(object sender, EventArgs e)
{
    Clear();//pemanggilan method untuk hapus isian textbox karena untuk pembatalan
    isian
}
//aksi jika cell datagrid di pilih / diklik
private void dataGridView1_CellClick(object sender, DataGridViewCellEventArgs e)
{
    if (e.RowIndex >= 0) //percabangan, untuk melihat apakah datagridview berisi
    data atau kosong
    {
        //jika kondisi terpenuhi, maka sourcecode dibawah ini akan dieksekusi
        DataGridViewRow row = this.dataGridView1.Rows[e.RowIndex];
        TxtID.Text = row.Cells[0].Value.ToString();//memasukkan data dari datagrid
        ke textbox ID
        TxtNamaPaket.Text = row.Cells[1].Value.ToString();//memasukkan data dari
        datagrid ke textbox nama
        TxtHarga.Text = row.Cells[2].Value.ToString();//memasukkan data dari
        datagrid ke textbox harga
        TxtDurasi.Text = row.Cells[3].Value.ToString();//memasukkan data dari
        datagrid ke textbox durasi
    }
}
//form load
private void FrmPaket_Load(object sender, EventArgs e)
{
    //mengisi textbox ID dengan menggunakan date time now
    TxtID.Text = "Pkt-" + DateTime.Now.ToString("ddMMyyyyhhmmss");
}
}
}

```

Output Form Transaksi

Transaksi Laundry
Melakukan transaksi laundry masuk

No Faktur: Tx-18012018063059 Nama Pelanggan: Zahra
Telp: 085665778493

Nama Paket: Berat: Kg
Harga/Kg: Diskon: %

Total: **48500**
Bayar:
Kembali: 1500

+ Tambah X Hapus Batal Selesai

No	Nama Paket	Berat	Diskon	Sub Total
1	Kering & Setrika 2 Hari	5	0	27500
2	Seprei Kecil (satu)	2	0	21000

FORM MASTER PELANGGAN

Desain Form Master Pelanggan

The screenshot shows a Windows application window titled "Master Pelanggan". The main header is teal with the title "Master Data Pelanggan" and the subtitle "Menampilkan data pelanggan". On the left of the header is a circular icon containing three stylized people. Below the header, the form is divided into two main sections. The top section contains input fields for "ID", "Nama", "Telp", and "Alamat". The "ID", "Nama", and "Telp" fields are grouped together on the left, while the "Alamat" field is a larger box on the right. Below these fields is a row of five buttons: "Simpan" (green plus icon), "Ubah" (green checkmark icon), "Hapus" (red X icon), "Batal" (green circular arrow icon), and a "Cari" label followed by a search input field. The bottom section of the form is a large, empty gray rectangular area, likely intended for a data grid or list.

Source code form master pelanggan:

```
using System;
using System.Linq;
using System.Windows.Forms;

namespace laundry_1._0
{
    public partial class FrmPelanggan : Form
    {
        public FrmPelanggan()
        {
            InitializeComponent();
            DisplayData(); //pemanggilan method untuk menampilkan data pada datagridview
        }

        private void button3_Click(object sender, EventArgs e)
        {
            Clear(); //pemanggilan method untuk hapus isian textbox
        }
        //Button Hapus
        private void button6_Click(object sender, EventArgs e)
        {
            //MessageBox Konfirmasi Hapus
            DialogResult dialogResult = MessageBox.Show("Yakin menghapus data?",
"Konfirmasi", MessageBoxButtons.YesNo);
            if (dialogResult == DialogResult.Yes) //Jika konfirmasi yes
            {

```

```

        //do something
        var contex = new laundryEntities1(); //koneksi
        string query = "DELETE FROM [dbo].[pelanggan] WHERE id_pel = " +
Convert.ToInt32(TxtID.Text);
        contex.Database.ExecuteSqlCommand(query);
        Clear();//pemanggilan method untuk hapus isian textbox
        DisplayData();//pemanggilan method untuk menampilkan data pada datagridview
        MessageBox.Show("Data berhasil dihapus!");//MessageBox Informasi
    }
    else if (dialogResult == DialogResult.No) //Jika konfirmasi NO
    {
        //do something else
    }
}
//method untuk hapus isian textbox
public void Clear()
{
    TxtID.Text = "";
    TxtNama.Text = "";
    TxtTelp.Text = "";
    TxtAlamat.Text = "";
    TxtCari.Text = "";
}
//Button Simpan
private void BtnSimpan_Click(object sender, EventArgs e)
{
    var contex = new laundryEntities1(); //koneksi
    string query = "INSERT INTO [dbo].[pelanggan] VALUES ('" + TxtID.Text + "','" +
TxtNama.Text + "','" + TxtAlamat.Text + "','" + TxtTelp.Text + "')";
    contex.Database.ExecuteSqlCommand(query);
    string urut = query;
    Clear();//pemanggilan method untuk hapus isian textbox
    DisplayData();//pemanggilan method untuk menampilkan data pada datagridview
    MessageBox.Show("Data Berhasil Ditambahkan!");//MessageBox Informasi
}
//Method untuk menampilkan data pada datagridview
private void DisplayData()
{
    var contex = new laundryEntities1();//koneksi
    laundryEntities1 laundry = new laundryEntities1();//koneksi
    var item = laundry.pelanggans.ToList();//pemanggilan data dari database
    dataGridView1.DataSource = item;//pengisian data ke datagridview
}
//Button Ubah
private void BtnUbah_Click(object sender, EventArgs e)
{
    var contex = new laundryEntities1();//koneksi
    string query = "UPDATE [dbo].[pelanggan] SET [nama_pel] = '" + TxtNama.Text +
"',[alamat] = '" + TxtAlamat.Text + "',[telp] = '" + TxtTelp.Text + "' WHERE id_pel = " +
Convert.ToInt32(TxtID.Text);
    contex.Database.ExecuteSqlCommand(query);
    Clear();//panggil method clear
    DisplayData();//panggil method DisplayData
    MessageBox.Show("Data berhasil diperbarui!");
}
//aksi jika cell datagrid di pilih / diklik
private void dataGridView1_CellClick(object sender, DataGridViewCellEventArgs e)
{
    if (e.RowIndex >= 0)//percabangan, untuk melihat apakah datagridview berisi data
atau kosong
    {
        //jika kondisi terpenuhi, maka sourcecode dibawah ini akan dieksekusi
    }
}

```

```

DataGridViewRow row = this.dataGridView1.Rows[e.RowIndex]; //select index row
datagrid
    TxtID.Text = row.Cells[0].Value.ToString(); //memasukkan data dari datagrid
    ke textbox ID
    TxtNama.Text = row.Cells[1].Value.ToString(); //memasukkan data dari datagrid
    ke textbox nama
    TxtAlamat.Text = row.Cells[2].Value.ToString(); //memasukkan data dari
    datagrid ke textbox alamat
    TxtTelp.Text = row.Cells[3].Value.ToString(); //memasukkan data dari datagrid
    ke textbox telp
}
//method untuk pencarian dari datagridview
private void searchart()
{
    {
        string searchValue = TxtCari.Text;
        dataGridView1.SelectionMode = DataGridViewSelectionMode.FullRowSelect;
        try
        {
            bool valueResult = false;
            foreach (DataGridViewRow row in dataGridView1.Rows)
            {
                for (int i = 0; i < row.Cells.Count; i++)
                {
                    if (row.Cells[i].Value != null &&
row.Cells[i].Value.ToString().Equals(searchValue))
                    {
                        int rowIndex = row.Index;
                        dataGridView1.Rows[rowIndex].Selected = true;
                        valueResult = true;
                        break;
                    }
                }
            }
            if (!valueResult)
            {
                MessageBox.Show("Keyword " + TxtCari.Text, "tidak ditemukan");
                return;
            }
        }
        catch (Exception exc)
        {
            MessageBox.Show(exc.Message);
        }
    }
}
//form load
private void FrmPelanggan_Load_1(object sender, EventArgs e)
{
    //mengisi ID dengan datetime now
    TxtID.Text = "Cus-" + DateTime.Now.ToString("ddMMyyyyhhmmss");
}
//Button Cari
private void BtnCetak_Click(object sender, EventArgs e)
{
    searchart(); //panggil method searchart
}
}

```

Output Form Pelanggan:

Aplikasi Laundry Bersih

Transaksi Pelanggan Laporan Pencatatan Paket Logout

Master Pelanggan

Master Data Pelanggan

Menampilkan data pelanggan

ID: Cus-1801201862640 Alamat: Jalan Raya PB Sudiman 1 no 78 Gresik

Nama: Ruby Telp: 08767738392

+ Simpan ✓ Ubah ✕ Hapus ↺ Batal

Cari

id_pel	nama_pel	alamat	telp
Cus-1801201861627	Rio	Jalan Raya Tunjungan 45 Surabaya	085655958556
Cus-1801201861711	Santi	Jalan Jawa 12 Sidoarjo	021776588
Cus-1801201862122	Irene	Jalan Griyasanta 15 Surabaya	081335600788
Cus-1801201862447	Hilma	Perum Bumi Indah Blok X No 23 Surabaya	082336748839
Cus-1801201862540	Sita	Jalan Kejawan Putih Tambak Gg 3 No 4 Surabaya	089774688493
Cus-1801201862640	Ruby	Jalan Raya PB Sudiman 1 no 78 Gresik	08767738392
Cus-1801201862753	Zahra	Jalan Bersama No 46 Krian Sidoarjo	085665778493

FORM LAPORAN TRANSAKSI

Desain Form Laporan Transaksi

Laporan Transaksi

Data Laporan Transaksi

Menampilkan data laporan transaksi

Cari Cari ↗ ↺ Batal

Source code Form Laporan Transaksi:

```
using System;
using System.Collections;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Drawing.Printing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace laundry_1._0
{
    public partial class FrmLaporan : Form
    {
        public FrmLaporan()
        {
            InitializeComponent();
        }
        //Method untuk menampilkan data dari database ke datagrid
        private void DisplayData()
        {
            var contex = new laundryEntities1();//inisiasi koneksi
            laundryEntities1 laundry = new laundryEntities1(); //koneksi
            var item = laundry.transaksi_masuk.SqlQuery("Select * from
transaksi_masuk").ToList();
            if (item != null) //percabangan untuk melihat apakah var item
null atau bukan
            {
                //jika bukan null, maka
                dataGridView1.DataSource = item; //var item adalah
datasource dari datagrid
            }
        }
        //Button batal
        private void button3_Click(object sender, EventArgs e)
        {
            TxtCari.Text = ""; //
        }
        //load form laporan
        private void FrmLaporan_Load(object sender, EventArgs e)
        {
            DisplayData();//memanggil method untuk menampilkan data ke
datagridview
        }
        //method untuk pencarian
        private void searchart()
        {
            {
                string searchValue = TxtCari.Text;
                dataGridView1.SelectionMode
DataGridViewSelectionMode.FullRowSelect;
                try
```

```

        {
            bool valueResult = false;
            foreach (DataGridViewRow row in dataGridView1.Rows)
            {
                for (int i = 0; i < row.Cells.Count; i++)
                {
                    //perulangan untuk index row
                    if (row.Cells[i].Value != null &&
row.Cells[i].Value.ToString().Equals(searchValue))
                        //perulangan untuk index cell
                        {
                            int rowIndex = row.Index;
                            dataGridView1.Rows[rowIndex].Selected =
true;

                            valueResult = true;
                            break;
                        }
                }
            }
            if (!valueResult)
            {
                MessageBox.Show("Keyword " + TxtCari.Text, "tidak
di temukan!");
                return;
            }
        }
        catch (Exception exc)
        {
            MessageBox.Show(exc.Message);
        }
    }
}
//Button cari
private void BtnCetak_Click(object sender, EventArgs e)
{
    searchart();//memanggil method cari
}

//-----new print
class ClsPrint
{
    #region Variables

    int iCellHeight = 0; //Used to get/set the datagridview cell
height
    int iTotalWidth = 0; //
    int iRow = 0; //Used as counter
    bool bFirstPage = false; //Used to check whether we are
printing first page
    bool bNewPage = false; // Used to check whether we are printing
a new page
    int iHeaderHeight = 0; //Used for the header height
    StringFormat strFormat; //Used to format the grid rows.

```



```

        ArrayList arrColumnLefts = new ArrayList();//Used to save left
coordinates of columns
        ArrayList arrColumnWidths = new ArrayList();//Used to save
column widths
        private PrintDocument _printDocument = new PrintDocument();
        private DataGridView gw = new DataGridView();
        private string _ReportHeader;

        #endregion

        public ClsPrint(DataGridView gridview, string ReportHeader)
        {
            _printDocument.PrintPage += new
PrintPageEventHandler(_printDocument_PrintPage);
            _printDocument.BeginPrint += new
PrintEventHandler(_printDocument_BeginPrint);
            gw = gridview;
            _ReportHeader = ReportHeader;
        }

        public void PrintForm()
        {
            ////Open the print dialog
            //PrintDialog printDialog = new PrintDialog();
            //printDialog.Document = _printDocument;
            //printDialog.UseEXDialog = true;

            ////Get the document
            //if (DialogResult.OK == printDialog.ShowDialog())
            //{
            //    _printDocument.DocumentName = "Test Page Print";
            //    _printDocument.Print();
            //}

            //Open the print preview dialog
            PrintPreviewDialog objPPdialog = new PrintPreviewDialog();
            objPPdialog.Document = _printDocument;
            objPPdialog.ShowDialog();
        }

        private void _printDocument_PrintPage(object sender,
System.Drawing.Printing.PrintPageEventArgs e)
        {
            //try
            //{
            //Set the left margin
            int iLeftMargin = e.MarginBounds.Left;
            //Set the top margin
            int iTopMargin = e.MarginBounds.Top;
            //Whether more pages have to print or not
            bool bMorePagesToPrint = false;
            int iTmpWidth = 0;

            //For the first page to print set the cell width and header
height

```

```

        if (bFirstPage)
        {
            foreach (DataGridViewColumn GridCol in gw.Columns)
            {
                iTmpWidth
                (int) (Math.Floor((double) ((double)GridCol.Width /
                (double)iTotalWidth * (double)iTotalWidth *
                ((double)e.MarginBounds.Width
                (double)iTotalWidth)))));
                =
                iHeaderHeight
                (int) (e.Graphics.MeasureString(GridCol.HeaderText,
                GridCol.InheritedStyle.Font,
                iTmpWidth).Height) + 11;
                =

                // Save width and height of headers
                arrColumnLefts.Add(iLeftMargin);
                arrColumnWidths.Add(iTmpWidth);
                iLeftMargin += iTmpWidth;
            }
        }
        //Loop till all the grid rows not get printed
        while (iRow <= gw.Rows.Count - 1)
        {
            DataGridViewRow GridRow = gw.Rows[iRow];
            //Set the cell height
            iCellHeight = GridRow.Height + 5;
            int iCount = 0;
            //Check whether the current page settings allows more
            rows to print
            if (iTopMargin + iCellHeight >= e.MarginBounds.Height
            + e.MarginBounds.Top)
            {
                bNewPage = true;
                bFirstPage = false;
                bMorePagesToPrint = true;
                break;
            }
            else
            {
                if (bNewPage)
                {
                    //Draw Header
                    e.Graphics.DrawString(_ReportHeader,
                    new Font(gw.Font, FontStyle.Bold),
                    Brushes.Black, e.MarginBounds.Left,
                    e.MarginBounds.Top
                    e.Graphics.MeasureString(_ReportHeader,
                    new Font(gw.Font, FontStyle.Bold),
                    e.MarginBounds.Width).Height - 13);
                    -

                    String strDate = "";
                    //Draw Date
                    e.Graphics.DrawString(strDate,

```

```

        new Font(gw.Font, FontStyle.Bold),
Brushes.Black,
        e.MarginBounds.Left +
        (e.MarginBounds.Width -
e.Graphics.MeasureString(strDate,
        new Font(gw.Font, FontStyle.Bold),
        e.MarginBounds.Width).Width),
        e.MarginBounds.Top -
e.Graphics.MeasureString(_ReportHeader,
        new Font(new Font(gw.Font,
FontStyle.Bold),
        FontStyle.Bold),
e.MarginBounds.Width).Height - 13);

        //Draw Columns
        iTopMargin = e.MarginBounds.Top;
        DataGridViewColumn[] _GridCol = new
DataGridViewColumn[gw.Columns.Count];
        int colcount = 0;
        //Convert ltr to rtl
        foreach (DataGridViewColumn GridCol in
gw.Columns)
        {
            _GridCol[colcount++] = GridCol;
        }
        for (int i = (_GridCol.Count() - 1); i >= 0;
i--)
        {
            e.Graphics.FillRectangle(new
SolidBrush(Color.LightGray),
                new
Rectangle((int)arrColumnLefts[iCount], iTopMargin,
                (int)arrColumnWidths[iCount],
iHeaderHeight));

            e.Graphics.DrawRectangle(Pens.Black,
                new
Rectangle((int)arrColumnLefts[iCount], iTopMargin,
                (int)arrColumnWidths[iCount],
iHeaderHeight));

            e.Graphics.DrawString(_GridCol[i].HeaderText,
                _GridCol[i].InheritedStyle.Font,
                new
SolidBrush(_GridCol[i].InheritedStyle.ForeColor),
                new
RectangleF((int)arrColumnLefts[iCount], iTopMargin,
                (int)arrColumnWidths[iCount],
iHeaderHeight), strFormat);

            iCount++;
        }
        bNewPage = false;
        iTopMargin += iHeaderHeight;
    }

```

```

        iCount = 0;
        DataGridViewCell[] _GridCell = new
DataGridViewCell[GridRow.Cells.Count];
        int cellcount = 0;
        //Convert ltr to rtl
        foreach (DataGridViewCell Cel in GridRow.Cells)
        {
            _GridCell[cellcount++] = Cel;
        }
        //Draw Columns Contents
        for (int i = (_GridCell.Count() - 1); i >= 0; i--)
        {
            if (_GridCell[i].Value != null)
            {
                e.Graphics.DrawString(_GridCell[i].FormattedValue.ToString(),
                    _GridCell[i].InheritedStyle.Font,
                    new
SolidBrush(_GridCell[i].InheritedStyle.ForeColor),
                    new
RectangleF((int)arrColumnLefts[iCount],
                    (float)iTopMargin,
                    (int)arrColumnWidths[iCount],
                    (float)iCellHeight),
                    strFormat);
            }
            //Drawing Cells Borders
            e.Graphics.DrawRectangle(Pens.Black,
                new
Rectangle((int)arrColumnLefts[iCount], iTopMargin,
                    (int)arrColumnWidths[iCount],
                    iCellHeight));
            iCount++;
        }
        iRow++;
        iTopMargin += iCellHeight;
    }
    //If more lines exist, print another page.
    if (bMorePagesToPrint)
        e.HasMorePages = true;
    else
        e.HasMorePages = false;
    //}
    //catch (Exception exc)
    //{
    //    MessageBox.Show(exc.Message, "Error",
    MessageBoxButtons.OK,
    MessageBoxIcon.Error);
    //}
}

private void __printDocument_BeginPrint(object sender,
System.Drawing.Printing.PrintEventArgs e)

```

```

        {
            try
            {
                strFormat = new StringFormat();
                strFormat.Alignment = StringAlignment.Center;
                strFormat.LineAlignment = StringAlignment.Center;
                strFormat.Trimming
StringTrimming.EllipsisCharacter;

                arrColumnLefts.Clear();
                arrColumnWidths.Clear();
                iCellHeight = 0;
                iRow = 0;
                bFirstPage = true;
                bNewPage = true;

                // Calculating Total Widths
                iTotWidth = 0;
                foreach (DataGridViewColumn dgvGridCol in gw.Columns)
                {
                    iTotWidth += dgvGridCol.Width;
                }
            }
            catch (Exception ex)
            {
                MessageBox.Show(ex.Message, "Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);
            }
        }

        public void printer()
        {
            ClsPrint _ClsPrint = new ClsPrint(dataGridView1, "Laporan
Transaksi");
            _ClsPrint.PrintForm();
        }

        private void BtnPrint_Click(object sender, EventArgs e)
        {
            printer();
        }
    }
}

```

Output Form Laporan Transaksi

Aplikasi Laundry Bersih

Transaksi Pelanggan Laporan

Data Laporan Transaksi
Menampilkan data laporan transaksi

Cari Cari Cetak Batal

id_tm	tgl_tm	tgl_ambil	total_harga	status	nama_pel	telp
Trx-1801201807...	18/01/2018	20/01/2018	54000		Santi	021776588
Trx-1801201807...	18/01/2018	19/01/2018	154000		Zahra	085665778493
Trx-1801201807...	18/01/2018	20/01/2018	22000		Rio	085655958556
Trx-1801201807...	18/01/2018	20/01/2018	22000		Santi	021776588
Trx-1801201807...	18/01/2018	20/01/2018	95000		Hilma	082336748839
Trx-1801201807...	18/01/2018	20/01/2018	5500		Irene	081335600788
Trx-1801201808...	18/01/2018	20/01/2018	69000		Santi	021776588
Trx-1801201808...	18/01/2018	20/01/2018	177500		Hilma	082336748839
Trx-1801201808...	18/01/2018	20/01/2018	18000		Sita	089774688493
Trx-1801201808...	18/01/2018	20/01/2018	93000		Irene	081335600788
Trx-1801201808...	18/01/2018	20/01/2018	49500		Irene	081335600788
Trx-1801201808...	18/01/2018	20/01/2018	11000		Sita	089774688493
Trx-1801201808...	18/01/2018	20/01/2018	27500		Sita	089774688493

Cetak Laporan Transaksi

Aplikasi Laundry Bersih

Print preview

Laporan Transaksi

telp	nama_pel	status	total_harga	tgl_ambil	tgl_tm	id_tm
021776588	Santi		54000	20/01/2018	18/01/2018	Trx-18012018071...
085665778493	Zahra		154000	19/01/2018	18/01/2018	Trx-18012018072...
085655958556	Rio		22000	20/01/2018	18/01/2018	Trx-18012018072...
021776588	Santi		22000	20/01/2018	18/01/2018	Trx-18012018073...
082336748839	Hilma		95000	20/01/2018	18/01/2018	Trx-18012018073...
081335600788	Irene		5500	20/01/2018	18/01/2018	Trx-18012018073...
021776588	Santi		69000	20/01/2018	18/01/2018	Trx-18012018080...
082336748839	Hilma		177500	20/01/2018	18/01/2018	Trx-18012018080...
089774688493	Sita		18000	20/01/2018	18/01/2018	Trx-18012018080...
081335600788	Irene		93000	20/01/2018	18/01/2018	Trx-18012018080...
081335600788	Irene		49500	20/01/2018	18/01/2018	Trx-18012018080...
089774688493	Sita		11000	20/01/2018	18/01/2018	Trx-18012018080...
089774688493	Sita		27500	20/01/2018	18/01/2018	Trx-18012018080...

FORM MASTER DATA PENGGUNA

Desain Form Master Data Pengguna

The screenshot shows a Windows application window titled "Master Data Pengguna". The window has a teal header bar with a user icon (a person wearing a hard hat) on the left and the title "Master Data Pengguna" with the subtitle "Menampilkan data pengguna" on the right. Below the header, there is a form with four input fields: "ID" (text box), "Nama" (text box), "Level" (dropdown menu), and "Password" (text box). Below the form, there are five buttons: "Simpan" (green plus icon), "Ubah" (green checkmark icon), "Hapus" (red X icon), "Batal" (green circular arrow icon), and "Cari" (magnifying glass icon). To the right of the "Cari" button is a search input field. Below the buttons is a large gray rectangular area, likely a placeholder for a data table or list.

Source Code Form Master Data Pengguna:

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.Entity;
using System.Data.Entity.Infrastructure;

namespace laundry_1._0
{
    public partial class FrmPengguna : Form
    {
        public FrmPengguna()
        {
            InitializeComponent();
            DisplayData();
        }
        //Button Simpan
    }
}
```

```

private void button2_Click(object sender, EventArgs e)
{
    var contex = new laundryEntities1();

    string query = "INSERT INTO [dbo].[user] VALUES ('" + TxtID.Text + "','" +
TxtNamaUser.Text + "','" + TxtPass.Text + "','" + CboLevel.SelectedItem + "')";
    contex.Database.ExecuteSqlCommand(query);
    string urut = query;
    Clear();
    DisplayData();
    MessageBox.Show("Data Berhasil Ditambahkan!");
}
//Method untuk menampilkan data ke datagrid
private void DisplayData()
{
    var contex = new laundryEntities1(); //inisiasi koneksi
    laundryEntities1 laundry = new laundryEntities1(); //koneksi
    var item = laundry.users.ToList(); //mengambil data dari db, diisi ke var item
    dataGridView1.DataSource = item; //menjadikan var item sbg datasource datagrid
}
//method untuk mengosongkan isian
public void Clear()
{
    TxtID.Text = "";
    TxtNamaUser.Text = "";
    TxtPass.Text = "";
    CboLevel.Text = "";
}
//button batal
private void BtnBatal_Click(object sender, EventArgs e)
{
    Clear();//memanggil method clear
}
//button ubah, untuk mengubah data
private void BtnUbah_Click(object sender, EventArgs e)
{
    var contex = new laundryEntities1();
    string query = "UPDATE [dbo].[user] SET [uname] = '" + TxtNamaUser.Text +
"', [upass] = '" + TxtPass.Text + "', [level] = '" + CboLevel.SelectedItem + "' WHERE id_user
= " + Convert.ToInt32(TxtID.Text);
    contex.Database.ExecuteSqlCommand(query);
    Clear();//memanggil method clear
    DisplayData();//memanggil method DisplayData
    MessageBox.Show("Data berhasil diperbarui!");
}
//Button hapus, menghapus data dari db
private void BtnHapus_Click(object sender, EventArgs e)
{
    var contex = new laundryEntities1();
    string query = "DELETE FROM [dbo].[user] WHERE id_user = " +
Convert.ToInt32(TxtID.Text);
    contex.Database.ExecuteSqlCommand(query);
    Clear();//memanggil method clear
    DisplayData();//memanggil method DisplayData
    MessageBox.Show("Data berhasil dihapus!");
}
//form load
private void FrmPengguna_Load(object sender, EventArgs e)
{
    //mengisi ID dengan datetime now
    TxtID.Text = "Usr-" + DateTime.Now.ToString("ddMMyyyyhhmmss");
}

```



```

//method pencarian
private void searchart()
{
    {
        string searchValue = TxtCari.Text;
        dataGridView1.SelectionMode = DataGridViewSelectionMode.FullRowSelect;
        try
        {
            bool valueResult = false;
            foreach (DataGridViewRow row in dataGridView1.Rows)
            {
                for (int i = 0; i < row.Cells.Count; i++)
                {
                    if (row.Cells[i].Value != null &&
row.Cells[i].Value.ToString().Equals(searchValue))
                    {
                        int rowIndex = row.Index;
                        dataGridView1.Rows[rowIndex].Selected = true;
                        valueResult = true;
                        break;
                    }
                }
            }
            if (!valueResult)
            {
                MessageBox.Show("Unable to find " + TxtCari.Text, "Not Found");
                return;
            }
        }
        catch (Exception exc)
        {
            MessageBox.Show(exc.Message);
        }
    }
}

//Button Cari
private void BtnCetak_Click(object sender, EventArgs e)
{
    searchart();//memanggil method pencarian
}

//aksi jika cell datagrid diklik
private void dataGridView1_CellClick(object sender, DataGridViewCellEventArgs e)
{
    if (e.RowIndex >= 0)//percabangan, untuk melihat apakah datagridview berisi data
atau kosong
    {
        //jika kondisi terpenuhi, maka sourcecode dibawah ini akan dieksekusi
        DataGridViewRow row = this.dataGridView1.Rows[e.RowIndex]; //select index row
datagrid
        TxtID.Text = row.Cells[0].Value.ToString();//memasukkan data dari datagrid
ke textbox ID
        TxtNamaUser.Text = row.Cells[1].Value.ToString();//memasukkan data dari
datagrid ke textbox nama
        TxtPass.Text = row.Cells[2].Value.ToString();//memasukkan data dari datagrid
ke textbox alamat
        CboLevel.Text = row.Cells[3].Value.ToString();//memasukkan data dari
datagrid ke textbox telp
    }
}
}
}

```

Output form pengguna:






Aplikasi Laundry Bersih

Transaksi Pelanggan Laporan Pengguna Paket Logout

Master Data Pengguna

Menampilkan data pengguna

ID: Nama:
Level: Password:

 Simpan  Ubah  Hapus  Batal  Cari

id_user	uname	upass	level
Usr-1801201860504	zamroji	123456	Manager
Usr-1801201860721	andy	1234	Manager

FORM MASTER DATA PAKET

Desain Form Master Data Paket:

The screenshot shows a Windows application window titled "Master Data Paket". The window has a teal header bar with a yellow circular icon containing a blue and white laundry basket. To the right of the icon, the text "Master Data Paket" is displayed in large white font, and below it, in smaller white font, is "Menampilkan Daftar Jenis Paket atau Layanan Laundry". The main content area is light gray and contains a form with four input fields: "ID Paket", "Nama Paket", "Harga/kg", and "Durasi" (with a "Hari" label next to it). Below the form is a large gray rectangular area, likely a placeholder for a data grid. At the bottom of the window is a toolbar with five buttons: "Simpan" (green plus icon), "Ubah" (green checkmark icon), "Hapus" (red X icon), and "Batal" (green circular arrow icon).

Source Code Form Master Data Paket:

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace laundry_1._0
{
    public partial class FrmPaket : Form
    {
        public FrmPaket()
        {
            InitializeComponent();
            DisplayData(); //pemanggilan method untuk menampilkan data pada datagridview
        }
    }
}
```

```

    }
    //Button Simpan
    private void BtnSimpan_Click(object sender, EventArgs e)
    {
        //koneksi menggunakan entity framework
        var contex = new laundryEntities1();
        string query = "INSERT INTO [dbo].[paket] VALUES ('" + TxtID.Text + "','" +
        TxtNamaPaket.Text + "','" + TxtHarga.Text + "','" + TxtDurasi.Text + "')";
        contex.Database.ExecuteSqlCommand(query);
        string urut = query;
        Clear(); //pemanggilan method untuk hapus isian textbox
        DisplayData(); //pemanggilan method untuk menampilkan data pada datagridview
        MessageBox.Show("Data Berhasil Ditambahkan!"); //MessageBox Informasi
    }
    //=====
    //Method Display Data
    //-----
    private void DisplayData()
    {
        var contex = new laundryEntities1();
        laundryEntities1 laundry = new laundryEntities1();
        var item = laundry.pakets.SqlQuery("Select id_paket, nama_paket, harga_satuan,
        durasi from paket").ToList();
        dataGridView1.DataSource = item;
    }
    //=====
    //Method Clear
    //-----
    public void Clear()
    {
        TxtID.Text = "";
        TxtNamaPaket.Text = "";
        TxtHarga.Text = "";
        TxtDurasi.Text = "";
    }
    //Button memperbarui data paket dalam database
    private void BtnUbah_Click(object sender, EventArgs e)
    {
        var contex = new laundryEntities1();
        string query = "UPDATE [dbo].[paket] SET [nama_paket] = '" + TxtNamaPaket.Text +
        "',[harga_satuan] = '" + TxtHarga.Text + "',[durasi] = '" + TxtDurasi.Text + "' WHERE
        id_paket = " + Convert.ToInt32(TxtID.Text);
        contex.Database.ExecuteSqlCommand(query);
        Clear(); //pemanggilan method untuk hapus isian textbox
        DisplayData(); //pemanggilan method untuk menampilkan data pada datagridview
        MessageBox.Show("Data berhasil diperbarui!"); //MessageBox Informasi
    }
    //Button Hapus data
    private void BtnHapus_Click(object sender, EventArgs e)
    {
        //MessageBox Konfirmasi hapus data
        DialogResult dialogResult = MessageBox.Show("Yakin menghapus data?",
        "Konfirmasi", MessageBoxButtons.YesNo);
        if (dialogResult == DialogResult.Yes)
        {
            //do something / dilakukan konfirmasi jika yes
            var contex = new laundryEntities1(); //inisiasi koneksi
            string query = "DELETE FROM [dbo].[paket] WHERE id_paket = " +
            Convert.ToInt32(TxtID.Text);
            contex.Database.ExecuteSqlCommand(query);
            Clear(); //pemanggilan method untuk hapus isian textbox
        }
    }

```

```

        DisplayData();//pemanggilan method untuk menampilkan data pada datagridview
        MessageBox.Show("Data berhasil dihapus!");//MessageBox Informasi
    }
    else if (dialogResult == DialogResult.No)
    {
        //do something else
        //Jika konfirmasi NO tidak dilakukan apa-apa
    }
}
//Button Batal
private void BtnBatal_Click(object sender, EventArgs e)
{
    Clear();//pemanggilan method untuk hapus isian textbox karena untuk pembatalan
isian
}
//aksi jika cell datagrid di pilih / diklik
private void dataGridView1_CellClick(object sender, DataGridViewCellEventArgs e)
{
    if (e.RowIndex >= 0) //percabangan, untuk melihat apakah datagridview berisi
data atau kosong
    {
        //jika kondisi terpenuhi, maka sourcecode dibawah ini akan dieksekusi
        DataGridViewRow row = this.dataGridView1.Rows[e.RowIndex];
        TxtID.Text = row.Cells[0].Value.ToString();//memasukkan data dari datagrid
ke textbox ID
        TxtNamaPaket.Text = row.Cells[1].Value.ToString();//memasukkan data dari
datagrid ke textbox nama
        TxtHarga.Text = row.Cells[2].Value.ToString();//memasukkan data dari
datagrid ke textbox harga
        TxtDurasi.Text = row.Cells[3].Value.ToString();//memasukkan data dari
datagrid ke textbox durasi
    }
}
//form load
private void FrmPaket_Load(object sender, EventArgs e)
{
    //mengisi textbox ID dengan menggunakan date time now
    TxtID.Text = "Pkt-" + DateTime.Now.ToString("ddMMyyyyhhmmss");
}
}
}

```

Output Form Paket:

Aplikasi Laundry Bersih

Transaksi Pelanggan Laporan Pengguna Paket Logout

Master Data Paket

Menampilkan Daftar Jenis Paket atau Layanan Laundry

ID Paket: Pkt-18012018055848


Nama Paket: Bed cover Besar (satuan)

Harga/kg: 31000

Durasi: 2 Hari

id_paket	nama_paket	harga_satuan	durasi
Pkt-18012018055848	Bed cover Besar (satuan)	31000	2
Pkt-18012018055922	Boneka Kecil (satuan)	10500	2
Pkt-18012018055948	Selamat Kecil (satuan)	19000	2
Pkt-18012018060013	Selamat Sedang (satuan)	23000	2
Pkt-18012018060038	Selamat Kecil (satuan)	19000	2

+ Simpan ✓ Ubah ✗ Hapus ↺ Batal



Link Video :

<https://youtu.be/RUM7ywixOEY>