Login

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace CRUD
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button_Login_Click(object sender, EventArgs e)
        {
            string uname, pswd;
            uname = TextBoxUserName.Text;
            pswd = TextBoxPassword.Text;
            if (uname.Equals("aimit") && pswd.Equals("it"))
            {
                Session["username"] = uname;
                Response.Redirect("Home.aspx");
            }
            else
            {
                Response.Write("login failed!!! Try again");
            }
        }
    }
}
```

Home

```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace CRUD
{
    public partial class Home : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            Response.Redirect("insert.aspx");
        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            Response.Redirect("Retrieve.aspx");
        }
```
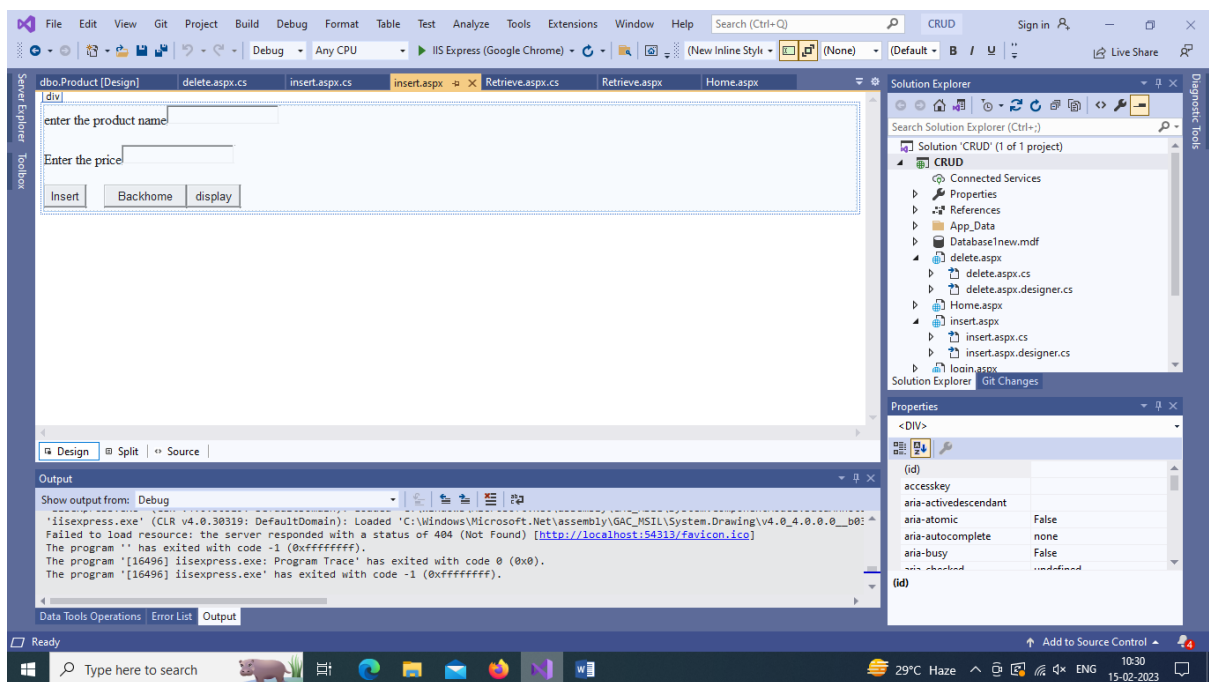
```csharp
        protected void Button3_Click(object sender, EventArgs e)
        {
            Response.Redirect("update.aspx");
        }

        protected void Button4_Click(object sender, EventArgs e)
        {
            Response.Redirect("delete.aspx");
        }
    }
}
```

Insert.cs



```csharp
using System;
using System.Collections.Generic;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;

namespace CRUD
{
    public partial class insert : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void Button1_Click(object sender, EventArgs e)
```

```csharp
        {
            String pr_name = TextBox1.Text;
            int price = int.Parse(TextBox2.Text);

            SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=F:\C#\Lab\Webform\CRUDConnected\CRUD\Ap
p_Data\crud.mdf;Integrated Security=True"); // @- interpret the string literally (that
is, you cannot escape any characters within the string if you use the @ prefix).

            con.Open();

            SqlCommand cmd = new SqlCommand("insert into
Product(Productname,Price)VALUES('" + pr_name + "'," + price + ")", con);

            cmd.ExecuteNonQuery();
            con.Close();
            Response.Write("Inserted Successfully");



        }

        protected void Button1_Click1(object sender, EventArgs e)
        {
            Response.Redirect("Home.aspx");
        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            Response.Redirect("Retrieve.aspx");
        }


    }
}
```
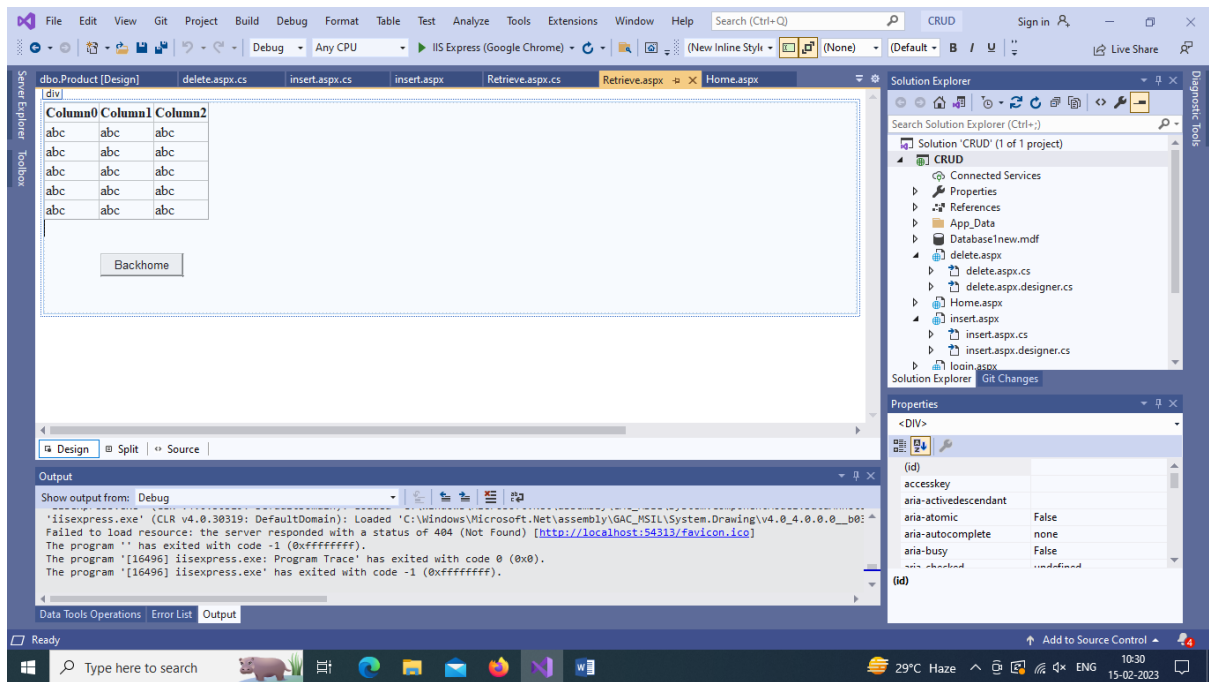
Retrieve

```csharp
using System;
using System.Collections.Generic;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace CRUD
{
    public partial class Retrieve : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=F:\C#\Lab\Webform\CRUDConnected\CRUD\Ap
p_Data\crud.mdf;Integrated Security=True");
            con.Open();
            SqlCommand cmd = new SqlCommand("SELECT * FROM Product", con);
            SqlDataReader dr = cmd.ExecuteReader();

            GridView1.DataSource = dr;
            GridView1.DataBind();
            con.Close();

        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            Response.Redirect("Home.aspx");
        }


    }
}
```
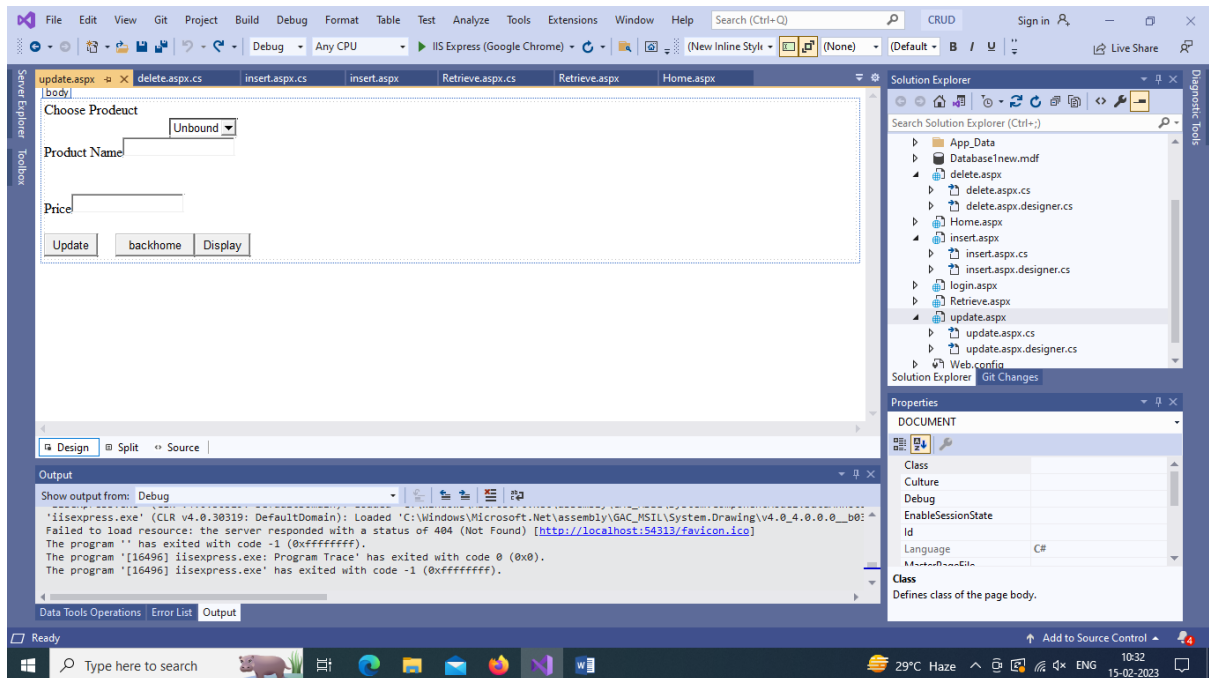
update

dropdownlist ,autopostback is true



```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;

namespace CRUD
{
    public partial class update : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if(!IsPostBack){
                SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=F:\C#\Lab\Webform\CRUDConnected\CRUD\Ap
p_Data\crud.mdf;Integrated Security=True");
                con.Open();
                SqlCommand cmd = new SqlCommand("SELECT Pid, Productname,Price FROM
Product",con);

                SqlDataReader dr = cmd.ExecuteReader();
                ddlProduct.DataSource=dr;
                ddlProduct.DataTextField="Productname";
                ddlProduct.DataValueField="Pid";
                ddlProduct.DataBind();
                ddlProduct.Items.Insert(0,new ListItem("Select"));

            }
```

```csharp
        }
        static int pid;
        protected void ddlProduct_selectIndexchanged(object sender, EventArgs e)
        {
            pid = int.Parse(ddlProduct.SelectedValue);
            SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\v11.0;AttachDbFilename=G:\C#\Lab\Webform\CRUDConnected\CRUD\App_Data\
crud.mdf;Integrated Security=True");
            con.Open();
            SqlCommand cmd = new SqlCommand("SELECT Productname,Price from Product
WHERE Pid=" + pid, con);
            SqlDataReader dr = cmd.ExecuteReader();
            while (dr.Read())
            {
                TextBox1.Text = dr.GetString(0);
                TextBox2.Text = dr.GetInt32(1).ToString();
            }
        }

        protected void Bttn_update_Click(object sender, EventArgs e)
        {
            String pname = TextBox1.Text;
            int price = int.Parse(TextBox2.Text);

            SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\v11.0;AttachDbFilename=G:\C#\Lab\Webform\CRUDConnected\CRUD\App_Data\
crud.mdf;Integrated Security=True");
            con.Open();
            SqlCommand cmd = new SqlCommand("UPDATE Product SET
Productname='"+pname+"',Price="+price+" WHERE Pid="+pid, con);

            cmd.ExecuteNonQuery();

            con.Close();
            Response.Write("Updated Successfully");

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            Response.Redirect("Home.aspx");
        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            Response.Redirect("Retrieve.aspx");
        }

    }
}
```
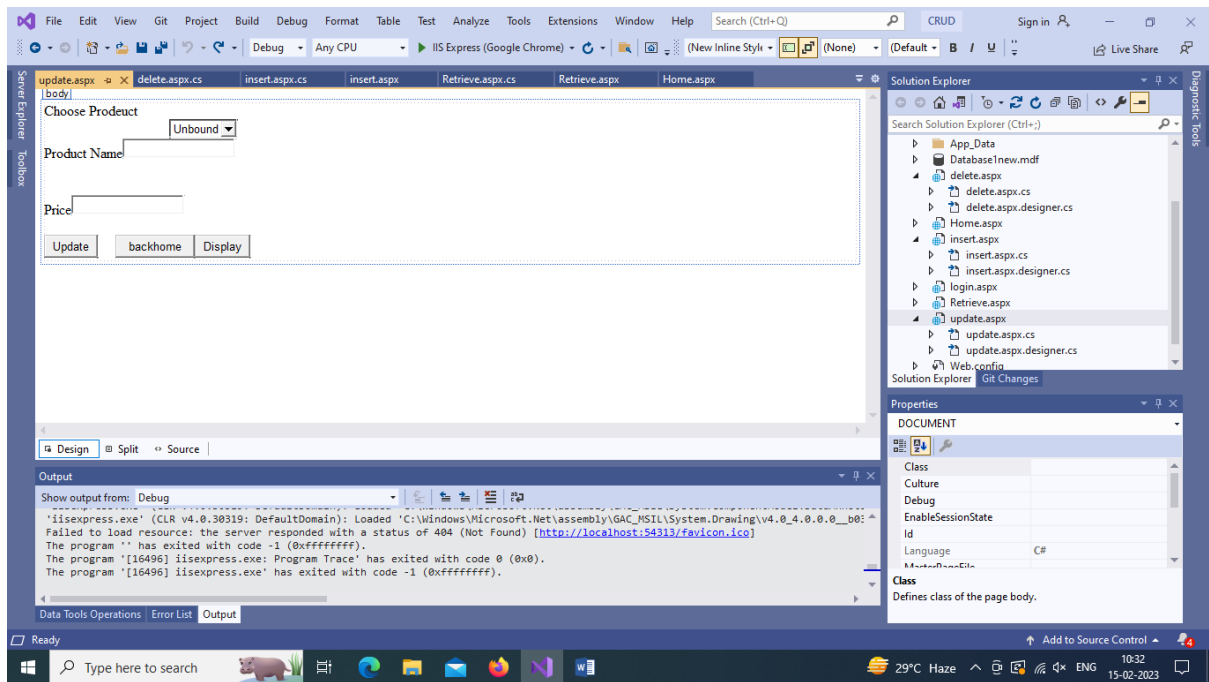
delete

dropdownlist ,autopostback is true

```csharp
using System;
using System.Collections.Generic;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace CRUD
{
    public partial class delete : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if(!IsPostBack){
                SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=F:\C#\Lab\Webform\CRUDConnected\CRUD\Ap
p_Data\crud.mdf;Integrated Security=True");
                con.Open();
                SqlCommand cmd = new SqlCommand("SELECT Pid, Productname,Price FROM
Product", con);
                SqlDataReader dr = cmd.ExecuteReader();
                ddlProduct.DataSource=dr;
                ddlProduct.DataTextField="Productname";
                ddlProduct.DataValueField="Pid";
                ddlProduct.DataBind();
                ddlProduct.Items.Insert(0,new ListItem("Select"));

            }

        }
        static int pid;

        protected void ddlProduct_selectIndexchanged(object sender, EventArgs e)
        {
```

```csharp
            pid = int.Parse(ddlProduct.SelectedValue);
            SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\v11.0;AttachDbFilename=G:\C#\Lab\Webform\CRUDConnected\CRUD\App_Data\
crud.mdf;Integrated Security=True");
            con.Open();
            SqlCommand cmd = new SqlCommand("SELECT Pid, Productname,Price FROM
Product WHERE Pid=" + pid, con);
            SqlDataReader dr = cmd.ExecuteReader();
            while (dr.Read())
            {

                    TextBox1.Text = dr.GetString(1);
                    TextBox2.Text = dr.GetInt32(2).ToString();

            }
        }

        protected void Bttn_delete_Click(object sender, EventArgs e)
        {
            String pname = TextBox1.Text;
            int price = int.Parse(TextBox2.Text);

            SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\v11.0;AttachDbFilename=G:\C#\Lab\Webform\CRUDConnected\CRUD\App_Data\
crud.mdf;Integrated Security=True");
            con.Open();
            SqlCommand cmd = new SqlCommand("DELETE FROM Product WHERE Pid="+pid,
con);
            cmd.ExecuteNonQuery();
            con.Close();
            Response.Write("Deleted Successfully");

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            Response.Redirect("Home.aspx");
        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            Response.Redirect("Retrieve.aspx");
        }

        }
    }
```

**Disconnected**

Create login and home page as its in connected architecture  and all the insert,delete,retrieve,update and delte same as connected

Retrieve

```csharp
using System;
using System.Collections.Generic;
using System.Data.SqlClient;
```

```csharp
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;

namespace CRUD
{
    public partial class Retrieve : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\v11.0;AttachDbFilename=G:\C#\LAB\WEBFORM\CRUDDISCONNECTED\CRUD\APP_DA
TA\CRUD.MDF;Integrated Security=True");
            con.Open();
            SqlDataAdapter DA = new SqlDataAdapter("SELECT * FROM Product", con);
            DataSet DS=new DataSet();
            DA.Fill(DS,"Product");

            GridView1.DataSource =DS;
            GridView1.DataBind();
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            Response.Redirect("Home.aspx");
        }

    }
 }
```

Insert

```csharp
using System;
using System.Collections.Generic;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;

namespace CRUD
{
    public partial class insert : System.Web.UI.Page
    {
        SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\v11.0;AttachDbFilename=G:\C#\LAB\WEBFORM\CRUDDISCONNECTED\CRUD\APP_DA
TA\CRUD.MDF;Integrated Security=True");

        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            con.Open();
            String pr_name = TextBox1.Text;
            int price = int.Parse(TextBox2.Text);
```

```csharp
            SqlDataAdapter DA = new SqlDataAdapter("insert into
Product(Productname,Price)VALUES('" + pr_name + "'," + price + ")", con);
            SqlCommandBuilder BLDR = new SqlCommandBuilder(DA);

            DataSet DS = new DataSet();

            DA.Fill(DS, "Product");

            Response.Write("Inserted Successfully");
            Response.AddHeader("refresh", "5;Retrieve.aspx");



        }

        protected void Button1_Click1(object sender, EventArgs e)
        {
            Response.Redirect("Retrieve.aspx");
        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            Response.Redirect("Home.aspx");
        }


    }
}


delete

using System;
using System.Collections.Generic;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;


using System.Data;
namespace CRUD
{
    public partial class delete : System.Web.UI.Page
    {
        SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\v11.0;AttachDbFilename=G:\C#\Lab\Webform\CRUDDisconnected\CRUD\App_Da
ta\crud.mdf;Integrated Security=True");

        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                con.Open();
                SqlDataAdapter DA = new SqlDataAdapter("SELECT Pid, Productname,Price
FROM Product", con);
                SqlCommandBuilder BLDR = new SqlCommandBuilder(DA);
                DataSet DS = new DataSet();
                DA.Fill(DS);
```

```csharp
                ddlProduct.DataSource = DS;
                ddlProduct.DataTextField = "Productname";
                ddlProduct.DataValueField = "Pid";
                ddlProduct.DataBind();
                ddlProduct.Items.Insert(0, new ListItem("Select"));

            }

        }
        static int pid;
        protected void ddlProduct_selectIndexchanged(object sender, EventArgs e)
        {
            pid = int.Parse(ddlProduct.SelectedValue);
            con.Open();
            SqlDataAdapter DA = new SqlDataAdapter("SELECT Productname,Price from
Product WHERE Pid=" + pid, con);
            SqlCommandBuilder BLDR = new SqlCommandBuilder(DA);
            DataSet DS = new DataSet();//dataset is a collection of tables
            DA.Fill(DS);

            TextBox1.Text = DS.Tables[0].Rows[0][0].ToString();//table[0] is first
table in dataset,rows[0][0]->1st row in the firstdatatable,first column
            TextBox2.Text = DS.Tables[0].Rows[0][1].ToString();

        }

        protected void Bttn_delete_Click(object sender, EventArgs e)
        {
            String pname = TextBox1.Text;
            int price = int.Parse(TextBox2.Text);
            con.Open();

            SqlDataAdapter DA = new SqlDataAdapter("DELETE FROM Product WHERE Pid=" +
pid, con);
            SqlCommandBuilder BLDR = new SqlCommandBuilder(DA);
            DataSet DS = new DataSet();
            DA.Fill(DS);

            Response.Write("Deleted Successfully");

        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            Response.Redirect("Home.aspx");
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            Response.Redirect("Retrieve.aspx");
        }

    }
}


Update

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
```

```csharp
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
using System.Data;

namespace CRUD
{
    public partial class update : System.Web.UI.Page
    {
        SqlConnection con = new SqlConnection(@"Data
Source=(LocalDB)\v11.0;AttachDbFilename=G:\C#\Lab\Webform\CRUDDisconnected\CRUD\App_Da
ta\crud.mdf;Integrated Security=True");

        protected void Page_Load(object sender, EventArgs e)
        {
            if(!IsPostBack)
            {
                con.Open();
                SqlDataAdapter DA = new SqlDataAdapter("SELECT Pid, Productname,Price
FROM Product", con);
                SqlCommandBuilder BLDR = new SqlCommandBuilder(DA);
                DataSet DS = new DataSet();
                DA.Fill(DS);

                ddlProduct.DataSource = DS;
                ddlProduct.DataTextField="Productname";
                ddlProduct.DataValueField="Pid";
                ddlProduct.DataBind();
                ddlProduct.Items.Insert(0,new ListItem("Select"));

            }

        }
        static int pid;
        protected void ddlProduct_selectIndexchanged(object sender, EventArgs e)
        {
            pid = int.Parse(ddlProduct.SelectedValue);
            con.Open();
            SqlDataAdapter DA = new SqlDataAdapter("SELECT Productname,Price from
Product WHERE Pid=" + pid, con);
            SqlCommandBuilder BLDR = new SqlCommandBuilder(DA);
            DataSet DS = new DataSet();
            DA.Fill(DS);

            TextBox1.Text = DS.Tables[0].Rows[0][0].ToString();
            TextBox2.Text = DS.Tables[0].Rows[0][1].ToString();

        }

        protected void Bttn_update_Click(object sender, EventArgs e)
        {
            String pname = TextBox1.Text;
            int price = int.Parse(TextBox2.Text);
            con.Open();
            SqlDataAdapter DA = new SqlDataAdapter("UPDATE Product SET Productname='"
+ pname + "',Price=" + price + " WHERE Pid=" + pid, con);
            SqlCommandBuilder BLDR = new SqlCommandBuilder(DA);
            DataSet DS = new DataSet("Product");
            DA.Fill(DS,"Product");

            Response.Write("Updated Successfully");
            Response.AddHeader("refresh", "5;Retrieve.aspx");
```

```csharp
        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            Response.Redirect("Retrieve.aspx");
        }

        protected void Button2_Click(object sender, EventArgs e)
        {
            Response.Redirect("Home.aspx");
        }

    }
}
```