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**LAB 2: Using SqlDataAdapter**



**Form1.cs**

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Data.SqlClient;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

namespace CRUDStudentWF

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

string conn = global::CRUDStudentWF.Properties.Settings.Default.STUDENT\_MANAGEMENTConnectionString;

DataSet ds = null;

SqlDataAdapter adapter = null;

private void sTUDENTBindingNavigatorSaveItem\_Click(object sender, EventArgs e)

{

this.Validate();

this.sTUDENTBindingSource.EndEdit();

this.tableAdapterManager.UpdateAll(this.sTUDENT\_MANAGEMENTDataSet);

}

private void Form1\_Load(object sender, EventArgs e)

{

// TODO: This line of code loads data into the 'sTUDENT\_MANAGEMENTDataSet.STUDENT' table. You can move, or remove it, as needed.

this.sTUDENTTableAdapter.Fill(this.sTUDENT\_MANAGEMENTDataSet.STUDENT);

adapter = new SqlDataAdapter("Select \* from Student", conn);

SqlCommandBuilder builder = new SqlCommandBuilder(adapter);

ds = new DataSet();

//fill data from adapter to dataset

adapter.Fill(ds, "Student");

//dtgStudent.DataSource = ds.Tables[0];

}

private void btnInsert\_Click(object sender, EventArgs e)

{

int result = 0;

//Create a new row

DataRow row = ds.Tables[0].NewRow();

row[0] = txtStudentID.Text;

row["Name"] = txtStudentName.Text;

row[2] = txtClassID.Text;

//add the row to DataSet

ds.Tables[0].Rows.Add(row);

//Update Adapter

try

{

adapter.Update(ds, "Student");

}

catch (Exception ex)

{

MessageBox.Show("Insert failed \n" + ex.Message);

}

if (result > 0) MessageBox.Show("Insert Successfully");

}

private void btnLoad\_Click(object sender, EventArgs e)

{

dtgStudent.DataSource = ds.Tables[0];

}

//Display a selected row on textboxes

int position = -1; // there is no selected row.

private void dtgStudent\_CellContentClick(object sender, DataGridViewCellEventArgs e)

{

position = e.RowIndex;

if (position == -1)

{

MessageBox.Show("No row is selected");

return;

}

//get selected row

DataRow row = ds.Tables[0].Rows[position];

txtStudentID.Text = row[0].ToString();

txtStudentName.Text = row["Name"].ToString();

txtClassID.Text = row[2].ToString();

}

private void btnUpdate\_Click(object sender, EventArgs e)

{

if (position == -1)

{

MessageBox.Show("No row is selected");

return;

}

//get a selected row in dataset

DataRow row = ds.Tables[0].Rows[position];

//edit the row

row.BeginEdit();

row[0] = txtStudentID.Text;

row[1] = txtStudentName.Text;

row[2] = txtClassID.Text;

row.EndEdit();

//update adapter

int result = adapter.Update(ds.Tables[0]);

if (result > 0)

{

MessageBox.Show("Update successfully!!!");

}

else

{

MessageBox.Show("Update failed!!!");

}

}

private void btnDelete\_Click(object sender, EventArgs e)

{

if (position == -1) return;

// Get a selected row

DataRow row = ds.Tables[0].Rows[position];

row.Delete();

int result = adapter.Update(ds.Tables[0]);

if (result > 0)

{

MessageBox.Show("Delete successfully!!!");

}

else

{

MessageBox.Show("Delete failed!!!");

}

}

}

}







