John Cosentino

Nick Raynin

CSC 330

Project 2: Newspaper Delivery System

Source Code

**Program.cs**

using System;

using System.Collections.Generic;

using System.Windows.Forms;

using MySql.Data.MySqlClient;

namespace CSC\_330\_Project\_2

{

class User

{

public static bool authenticate(string username, string password)

{

string connection = "server=localhost; User Id=root; password=8milerun; database=csc330project2;";

MySqlConnection proj2 = new MySqlConnection(connection);

proj2.Open();

var query = "SELECT username, password FROM csc330project2.logins;";

MySqlCommand cmd = new MySqlCommand(query, proj2);

List<string> tempU = new List<string>();

List<string> tempP = new List<string>();

string u, p;

bool check = false;

using (proj2)

{

MySqlDataReader reader = cmd.ExecuteReader();

while (reader.Read())

{

u = (string)reader["username"];

p = (string)reader["password"];

if (username == u && password == p)

{

tempU.Add(u);

tempP.Add(p);

check = true;

break;

}

}

}

proj2.Close();

if (check == true)

{

return true;

}

else

{

return false;

}

}

public static void addNewUser(string username, string password)

{

string connection = "server=localhost; User Id=root; password=8milerun; database=csc330project2;";

MySqlConnection proj2 = new MySqlConnection(connection);

proj2.Open();

var query = "INSERT INTO logins (username, password) VALUES (@user, @password);";

MySqlCommand cmd = new MySqlCommand(query, proj2);

cmd.Parameters.AddWithValue("@user", username);

cmd.Parameters.AddWithValue("@password", password);

cmd.ExecuteNonQuery();

proj2.Close();

}

public static bool checkIfRegistered(string username)

{

string connection = "server=localhost; User Id=root; password=8milerun; database=csc330project2;";

MySqlConnection proj2 = new MySqlConnection(connection);

proj2.Open();

var query = "SELECT username FROM csc330project2.logins;";

MySqlCommand cmd = new MySqlCommand(query, proj2);

List<string> tempU = new List<string>();

string u;

bool check = false;

using (proj2)

{

MySqlDataReader reader = cmd.ExecuteReader();

while (reader.Read())

{

u = (string)reader["username"];

tempU.Add(u);

if (username == u)

{

tempU.Add(u);

check = true;

break;

}

}

}

proj2.Close();

if (check == true)

{

return false;

}

else

{

return true;

}

}

}

abstract class Person

{

protected string firstName;

protected string lastName;

protected string pNumber;

protected string streetName;

protected int streetNumber;

protected string aptNumber;

protected int postalCode;

protected string city;

protected string state;

public string FirstName { get; set; }

public string LastName { get; set; }

public string PNumber { get; set; }

public string StreetName { get; set; }

public int StreetNumber { get; set; }

public string AptNumber { get; set; }

public int PostalCode { get; set; }

public string City { get; set; }

public string State { get; set; }

public abstract void update(int ID, int idH, int idP);

}

class Household : Person

{

private bool subStatus;

public bool SubStatus

{

get { return subStatus; }

set { subStatus = value; }

}

public override void update(int ID, int idH, int idP)

{

throw new NotImplementedException();

}

}

class Carrier : Person

{

private int idcarriers;

private int idhouseholds;

private int idpublications;

public int Idcarriers

{

get { return idcarriers; }

set { idcarriers = value; }

}

public int Idhouseholds

{

get { return idhouseholds; }

set { idhouseholds = value; }

}

public int Idpublications

{

get { return idpublications; }

set { idpublications = value; }

}

public override void update(int ID, int idH, int idP)

{

string connection = "server=localhost; User Id=root; password=8milerun; database=csc330project2;";

MySqlConnection proj2 = new MySqlConnection(connection);

proj2.Open();

if (idH != 0 && idP == 0)

{

var query = "UPDATE csc330project2.carriers SET idhouseholds = @house WHERE idcarriers = @ID";

MySqlCommand cmd = new MySqlCommand(query, proj2);

cmd.Parameters.AddWithValue("@ID", ID);

cmd.Parameters.AddWithValue("@house", idH);

cmd.ExecuteNonQuery();

}

else if (idH == 0 && idP != 0)

{

var query = "UPDATE csc330project2.carriers SET idpublications = @pub WHERE idcarriers = @ID";

MySqlCommand cmd = new MySqlCommand(query, proj2);

cmd.Parameters.AddWithValue("@ID", ID);

cmd.Parameters.AddWithValue("@pub", idP);

cmd.ExecuteNonQuery();

}

else if (idH != 0 && idP != 0)

{

var query = "UPDATE csc330project2.carriers SET idhouseholds = @house, idpublications = @pub WHERE idcarriers = @ID";

MySqlCommand cmd = new MySqlCommand(query, proj2);

cmd.Parameters.AddWithValue("@ID", ID);

cmd.Parameters.AddWithValue("@house", idH);

cmd.Parameters.AddWithValue("@pub", idP);

cmd.ExecuteNonQuery();

}

else

{ }

proj2.Close();

}

}

class Publication

{

private string title;

private char newsType;

private string edition;

private double price;

public string Title

{

get { return title; }

set { title = value; }

}

public char NewsType

{

get { return newsType; }

set { newsType = value; }

}

public string Edition

{

get { return edition; }

set { edition = value; }

}

public double Price

{

get { return price; }

set { price = value; }

}

}

static class Program

{

/// <summary>

/// The main entry point for the application.

/// </summary>

[STAThread]

static void Main()

{

Application.EnableVisualStyles();

Application.SetCompatibleTextRenderingDefault(false);

Application.Run(new Form1());

}

}

}

**Form1.cs**

using System;

using System.Windows.Forms;

namespace CSC\_330\_Project\_2

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void linkLabel1\_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

{

Form2 form2 = new Form2();

form2.Show();

}

private void linkLabel2\_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

{

}

private void linkLabel3\_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

{

}

private void button1\_Click(object sender, EventArgs e)

{

if (User.authenticate(textBox1.Text, textBox2.Text) == true)

{

Form3 form3 = new Form3();

form3.Show();

this.Hide();

}

else

{

MessageBox.Show("Login failed!");

}

}

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

{

}

private void button1\_KeyDown(object sender, KeyEventArgs e)

{

}

private void Form1\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

button1\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void textBox2\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

button1\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void textBox1\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

button1\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

}

}

**Form2.cs**

using System;

using System.Windows.Forms;

namespace CSC\_330\_Project\_2

{

public partial class Form2 : Form

{

public Form2()

{

InitializeComponent();

}

private void Form2\_Load(object sender, EventArgs e)

{

}

private void button1\_Click(object sender, EventArgs e)

{

try

{

if (User.checkIfRegistered(textBox1.Text) == true)

{

User.addNewUser(textBox1.Text, textBox2.Text);

MessageBox.Show(textBox1.Text + " has been added to the database.");

this.Close();

}

else

{

MessageBox.Show("Invalid registration!");

}

}

catch (Exception)

{

MessageBox.Show("User "+"\""+textBox1.Text+"\" is not valid.");

}

}

private void textBox1\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

button1\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void textBox2\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

button1\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

}

}

**Form3.cs**

using System;

using System.Windows.Forms;

using MySql.Data.MySqlClient;

using System.Data;

namespace CSC\_330\_Project\_2

{

public partial class Form3 : Form

{

public Form3()

{

InitializeComponent();

}

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

{

if (householdsButton.Checked)

{

string connection = "server=localhost; User Id=root; password=8milerun; database=csc330project2;";

MySqlConnection proj2 = new MySqlConnection(connection);

proj2.Open();

Random idGen = new Random();

int id = idGen.Next();

string tempID = id.ToString();

tempID = tempID.Substring(0, 6);

id = int.Parse(tempID);

var addQuery = "INSERT INTO households(idhouseholds, firstName, lastName, pNumber, streetName, houseNumber, aptNum, postal, subStatus)VALUES(@ID, @first, @last, @pnum, @sName, @hNumber, @aNum, @post, @subS)";

MySqlCommand cmd = new MySqlCommand(addQuery, proj2);

MySqlDataAdapter adapt = new MySqlDataAdapter(addQuery, proj2);

cmd.Parameters.AddWithValue("@ID", id);

cmd.Parameters.Add("@first", MySqlDbType.String, 36, "firstName");

cmd.Parameters.Add("@last", MySqlDbType.String, 36, "lastName");

cmd.Parameters.Add("@pNum", MySqlDbType.String, 11, "pNumber");

cmd.Parameters.Add("@sName", MySqlDbType.String, 11, "streetName");

cmd.Parameters.Add("@hNumber", MySqlDbType.Int32, 11, "houseNumber");

cmd.Parameters.Add("@aNum", MySqlDbType.String, 11, "aptNum");

cmd.Parameters.Add("@post", MySqlDbType.Int32, 11, "postal");

cmd.Parameters.AddWithValue("@subS", 1);

adapt.InsertCommand = cmd;

var updateQuery = "UPDATE csc330project2.households SET firstName = @first, lastName = @last, pNumber = @pNum, streetName = @sName, houseNumber = @hNumber, aptNum = @aNum, postal = @post, subStatus = @subS WHERE idhouseholds = @ID;";

cmd = new MySqlCommand(updateQuery, proj2);

cmd.Parameters.Add("@ID", MySqlDbType.Int32, 6, "idhouseholds");

cmd.Parameters.Add("@first", MySqlDbType.String, 36, "firstName");

cmd.Parameters.Add("@last", MySqlDbType.String, 36, "lastName");

cmd.Parameters.Add("@pNum", MySqlDbType.String, 11, "pNumber");

cmd.Parameters.Add("@sName", MySqlDbType.String, 11, "streetName");

cmd.Parameters.Add("@hNumber", MySqlDbType.Int32, 11, "houseNumber");

cmd.Parameters.Add("@aNum", MySqlDbType.String, 11, "aptNum");

cmd.Parameters.Add("@post", MySqlDbType.Int32, 11, "postal");

cmd.Parameters.Add("@subS", MySqlDbType.Bit, 11, "subStatus");

adapt.UpdateCommand = cmd;

var deleteQuery = "DELETE FROM csc330project2.households WHERE idhouseholds= @ID;";

cmd = new MySqlCommand(deleteQuery, proj2);

cmd.Parameters.Add("@ID", MySqlDbType.Int32, 6, "idhouseholds");

adapt.DeleteCommand = cmd;

try

{

DataTable DT = dataGridView1.DataSource as DataTable;

adapt.Update(DT);

}

catch (MySqlException)

{

MessageBox.Show("Not all fields have been filled");

}

catch (FormatException)

{

MessageBox.Show("One of the fields has incorrect information format.");

}

catch (OverflowException)

{

MessageBox.Show("One of the fields has a number that is too big.");

}

catch (Exception)

{

MessageBox.Show("Unable to process.");

}

finally

{

MessageBox.Show("The database has been updated.");

}

proj2.Close();

}

else if (carrierButton.Checked)

{

string connection = "server=localhost; User Id=root; password=8milerun; database=csc330project2;";

MySqlConnection proj2 = new MySqlConnection(connection);

proj2.Open();

Random idGen = new Random();

int id = idGen.Next();

string tempID = id.ToString();

tempID = tempID.Substring(0, 6);

id = int.Parse(tempID);

DataSet DS = new DataSet();

var addQuery = "INSERT INTO carriers(idcarriers, dayDeliver, idhouseholds, idpublications, price)VALUES(@ID, @dDel, @idH, @idP, @pr)";

MySqlCommand cmd = new MySqlCommand(addQuery, proj2);

MySqlDataAdapter adapt = new MySqlDataAdapter(addQuery, proj2);

cmd.Parameters.AddWithValue("@ID", id);

cmd.Parameters.Add("@dDel", MySqlDbType.String, 36, "dayDeliver");

cmd.Parameters.Add("@idH", MySqlDbType.Int32, 6, "idhouseholds");

cmd.Parameters.Add("@idP", MySqlDbType.Int32, 6, "idpublications");

cmd.Parameters.Add("@pr", MySqlDbType.Double, 6, "price");

adapt.InsertCommand = cmd;

var updateQuery = "UPDATE csc330project2.carriers SET dayDeliver = @dDel, idhouseholds = @idH, idpublications = @idP, price = @pr WHERE idhouseholds = @ID;";

cmd = new MySqlCommand(updateQuery, proj2);

cmd.Parameters.Add("@ID", MySqlDbType.Int32, 6, "idhouseholds");

cmd.Parameters.Add("@dDel", MySqlDbType.String, 36, "dayDeliver");

cmd.Parameters.Add("@idH", MySqlDbType.Int32, 6, "idhouseholds");

cmd.Parameters.Add("@idP", MySqlDbType.Int32, 6, "idpublications");

cmd.Parameters.Add("@pr", MySqlDbType.Double, 6, "price");

adapt.UpdateCommand = cmd;

var deleteQuery = "DELETE FROM csc330project2.carriers WHERE idcarriers= @ID;";

cmd = new MySqlCommand(deleteQuery, proj2);

cmd.Parameters.Add("@ID", MySqlDbType.Int32, 6, "idcarriers");

adapt.DeleteCommand = cmd;

try

{

DataTable DT = dataGridView1.DataSource as DataTable;

adapt.Update(DT);

}

catch (MySqlException)

{

MessageBox.Show("Not all fields have been filled (Database)");

}

catch (FormatException)

{

MessageBox.Show("One of the fields has incorrect information.");

}

catch (OverflowException)

{

MessageBox.Show("One of the fields has a number that is too big.");

}

finally

{

MessageBox.Show("The database has been updated.");

}

proj2.Close();

}

else if (publicationButton.Checked)

{

string connection = "server=localhost; User Id=root; password=8milerun; database=csc330project2;";

MySqlConnection proj2 = new MySqlConnection(connection);

proj2.Open();

Random idGen = new Random();

int id = idGen.Next();

string tempID = id.ToString();

tempID = tempID.Substring(0, 6);

id = int.Parse(tempID);

DataSet DS = new DataSet();

var addQuery = "INSERT INTO publications(idpublications, title, newsType, edition, price)VALUES(@ID, @titl, @newsT, @edit, @pr)";

MySqlCommand cmd = new MySqlCommand(addQuery, proj2);

MySqlDataAdapter adapt = new MySqlDataAdapter(addQuery, proj2);

cmd.Parameters.AddWithValue("@ID", id);

cmd.Parameters.Add("@titl", MySqlDbType.String, 36, "title");

cmd.Parameters.Add("@newsT", MySqlDbType.String, 36, "newsType");

cmd.Parameters.Add("@edit", MySqlDbType.String, 11, "edition");

cmd.Parameters.Add("@pr", MySqlDbType.Double, 11, "price");

adapt.InsertCommand = cmd;

var updateQuery = "UPDATE csc330project2.publications SET title = @titl, newsType = @newsT, edition = @edit, price = @pr WHERE idpublications = @ID;";

cmd = new MySqlCommand(updateQuery, proj2);

cmd.Parameters.Add("@ID", MySqlDbType.Int32, 6, "idpublications");

cmd.Parameters.Add("@titl", MySqlDbType.String, 36, "title");

cmd.Parameters.Add("@newsT", MySqlDbType.String, 36, "newsType");

cmd.Parameters.Add("@edit", MySqlDbType.String, 11, "edition");

cmd.Parameters.Add("@pr", MySqlDbType.Double, 11, "price");

adapt.UpdateCommand = cmd;

var deleteQuery = "DELETE FROM csc330project2.publications WHERE idpublications= @ID;";

cmd = new MySqlCommand(deleteQuery, proj2);

cmd.Parameters.Add("@ID", MySqlDbType.Int32, 6, "idpublications");

adapt.DeleteCommand = cmd;

try

{

DataTable DT = dataGridView1.DataSource as DataTable;

adapt.Update(DT);

}

catch (MySqlException)

{

MessageBox.Show("Not all fields have been filled");

}

catch (FormatException)

{

MessageBox.Show("One of the fields has incorrect information.");

}

catch (OverflowException)

{

MessageBox.Show("One of the fields has a number that is too big.");

}

finally

{

MessageBox.Show("The database has been updated.");

}

proj2.Close();

}

else

{ }

}

private void searchButton\_CheckedChanged(object sender, EventArgs e)

{

}

private void addButton\_CheckedChanged(object sender, EventArgs e)

{

}

private void deleteButton\_CheckedChanged(object sender, EventArgs e)

{

}

private void textBox1\_TextChanged(object sender, EventArgs e)

{

}

private void textBox1\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

connectionButton\_Click(this, new EventArgs());

//When in textbox, press Enter to utilize the button

}

}

private void Form1\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

connectionButton\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void searchButton\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

connectionButton\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void addButton\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

connectionButton\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void deleteButton\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

connectionButton\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void Form3\_Load(object sender, EventArgs e)

{

}

private void groupBox1\_Enter(object sender, EventArgs e)

{

}

private void connectionButton\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

connectionButton\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void householdsButton\_CheckedChanged(object sender, EventArgs e)

{

if (householdsButton.Checked)

{

if (householdsButton.Checked == true)

{

textBox1.Visible = false;

carrierClickButton.Visible = false;

richTextBox1.Visible = false;

instructionLabel.Visible = false;

}

string connection = "server=localhost; User Id=root; password=8milerun; database=csc330project2;";

MySqlConnection proj2 = new MySqlConnection(connection);

proj2.Open();

var query = "select \* from households;";

MySqlDataAdapter cmd = new MySqlDataAdapter(query, proj2);

DataSet DS = new DataSet();

cmd.Fill(DS);

dataGridView1.DataSource = DS.Tables[0];

dataGridView1.Visible = true;

dataGridView1.Columns[0].ReadOnly = true;

dataGridView1.Columns[8].ReadOnly = true;

this.dataGridView1.ClipboardCopyMode =

DataGridViewClipboardCopyMode.EnableWithoutHeaderText;

proj2.Close();

}

}

private void carrierButton\_CheckedChanged(object sender, EventArgs e)

{

if (carrierButton.Checked)

{

if (carrierButton.Checked == true)

{

textBox1.Visible = true;

carrierClickButton.Visible = true;

carrierClickButton.Text = "C";

richTextBox1.Visible = true;

instructionLabel.Visible = true;

}

string connection = "server=localhost; User Id=root; password=8milerun; database=csc330project2;";

MySqlConnection proj2 = new MySqlConnection(connection);

proj2.Open();

var query = "select \* from carriers;";

MySqlDataAdapter cmd = new MySqlDataAdapter(query, proj2);

DataSet DS = new DataSet();

cmd.Fill(DS);

dataGridView1.DataSource = DS.Tables[0];

dataGridView1.Visible = true;

dataGridView1.Columns[0].ReadOnly = true;

dataGridView1.Columns[2].ReadOnly = true;

dataGridView1.Columns[3].ReadOnly = true;

this.dataGridView1.ClipboardCopyMode =

DataGridViewClipboardCopyMode.EnableWithoutHeaderText;

proj2.Close();

}

}

private void publicationButton\_CheckedChanged(object sender, EventArgs e)

{

if (publicationButton.Checked)

{

if (publicationButton.Checked == true)

{

textBox1.Visible = false;

carrierClickButton.Visible = false;

richTextBox1.Visible = false;

instructionLabel.Visible = false;

}

string connection = "server=localhost; User Id=root; password=8milerun; database=csc330project2;";

MySqlConnection proj2 = new MySqlConnection(connection);

proj2.Open();

var query = "select \* from publications;";

MySqlDataAdapter cmd = new MySqlDataAdapter(query, proj2);

DataSet DS = new DataSet();

cmd.Fill(DS);

dataGridView1.DataSource = DS.Tables[0];

dataGridView1.Visible = true;

dataGridView1.Columns[0].ReadOnly = true;

this.dataGridView1.ClipboardCopyMode =

DataGridViewClipboardCopyMode.EnableWithoutHeaderText;

proj2.Close();

}

}

private void dataGridView1\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

connectionButton\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void checkBox1\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

connectionButton\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void checkBox2\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

connectionButton\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

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

{ //What if carrier ID does not exist?

Carrier c = new Carrier();

int x; //Used for Int32.TryParse

if (String.IsNullOrWhiteSpace(textBox1.Text) == true)

{ }

else

{

switch (carrierClickButton.Text)

{

case "C":

if (Int32.TryParse(textBox1.Text, out x) == true)

{

idClabel.Text = textBox1.Text;

textBox1.Clear();

carrierClickButton.Text = "H";

}

else

{

MessageBox.Show("Please input a 6-digit number.");

textBox1.Clear();

}

break;

case "H":

if (Int32.TryParse(textBox1.Text, out x) == true)

{

idHlabel.Text = textBox1.Text;

textBox1.Clear();

carrierClickButton.Text = "P";

}

else

{

MessageBox.Show("Please input a 6-digit number.");

textBox1.Clear();

}

break;

case "P":

if (Int32.TryParse(textBox1.Text, out x) == true)

{

idPlabel.Text = textBox1.Text;

textBox1.Clear();

carrierClickButton.Text = "C";

c.update(Int32.Parse(idClabel.Text), Int32.Parse(idHlabel.Text), Int32.Parse(idPlabel.Text));

idClabel.Text = "idcarriers";

idHlabel.Text = "idhouseholds";

idPlabel.Text = "idpublications";

}

else

{

MessageBox.Show("Please input a 6-digit number.");

textBox1.Clear();

}

break;

default:

break;

}

}

}

private void carrierClickButton\_KeyDown(object sender, KeyEventArgs e)

{

}

private void textBox1\_KeyDown\_1(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

carrierClickButton\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void carrierClickButton\_TextChanged(object sender, EventArgs e)

{

}

private void linkLabel1\_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

{

Form4 form4 = new Form4();

form4.Show();

}

private void dataGridView1\_DoubleClick(object sender, EventArgs e)

{

}

}

}

**Form4.cs**

using System;

using System.Windows.Forms;

using MySql.Data.MySqlClient;

namespace CSC\_330\_Project\_2

{

public partial class Form4 : Form

{

public Form4()

{

InitializeComponent();

}

private void textBox1\_TextChanged(object sender, EventArgs e)

{

}

private void checkBox1\_CheckedChanged(object sender, EventArgs e)

{

}

private void button1\_Click(object sender, EventArgs e)

{

if (string.IsNullOrWhiteSpace(textBox1.Text))

{}

else

{

if (radioButton1.Checked && !radioButton2.Checked)

{

string connection = "server=localhost; User Id=root; password=8milerun; database=csc330project2;";

MySqlConnection proj2 = new MySqlConnection(connection);

proj2.Open();

try

{

var addQuery = "SELECT SUM(price)FROM carriers WHERE idhouseholds = @idhouse";

MySqlCommand cmdAdd = new MySqlCommand(addQuery, proj2);

cmdAdd.Parameters.AddWithValue("@idhouse", Double.Parse(textBox1.Text));

var countQuery = "SELECT COUNT(idhouseholds) FROM carriers where idhouseholds = @idhouse;";

MySqlCommand cmdCount = new MySqlCommand(countQuery, proj2);

cmdCount.Parameters.AddWithValue("@idhouse", Int32.Parse(textBox1.Text));

priceLabel.Text = "$" + cmdAdd.ExecuteScalar().ToString();

totalLabel.Text = cmdCount.ExecuteScalar().ToString();

}

catch (FormatException)

{

MessageBox.Show("Please type a number.");

}

catch (OverflowException)

{

MessageBox.Show("One of the fields has a number that is too big.");

}

proj2.Close();

}

else if (!radioButton1.Checked && radioButton2.Checked)

{

string connection = "server=localhost; User Id=root; password=8milerun; database=csc330project2;";

MySqlConnection proj2 = new MySqlConnection(connection);

proj2.Open();

try

{

var addQuery = "SELECT SUM(price)FROM carriers WHERE idpublications = @idpub";

MySqlCommand cmdAdd = new MySqlCommand(addQuery, proj2);

cmdAdd.Parameters.AddWithValue("@idpub", Double.Parse(textBox1.Text));

var countQuery = "SELECT COUNT(idpublications) FROM carriers where idpublications = @idpub;";

MySqlCommand cmdCount = new MySqlCommand(countQuery, proj2);

cmdCount.Parameters.AddWithValue("@idpub", Int32.Parse(textBox1.Text));

priceLabel.Text = "$" + cmdAdd.ExecuteScalar().ToString();

totalLabel.Text = cmdCount.ExecuteScalar().ToString();

}

catch (FormatException)

{

MessageBox.Show("Please type a number.");

}

catch (OverflowException)

{

MessageBox.Show("One of the fields has a number that is too big.");

}

proj2.Close();

}

else

{

MessageBox.Show("Please select an option above.");

}

}

}

private void checkBox1\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

button1\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void checkBox2\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

button1\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void groupBox1\_Enter(object sender, EventArgs e)

{

}

private void radioButton1\_CheckedChanged(object sender, EventArgs e)

{

if (radioButton1.Checked && !radioButton2.Checked)

{

groupBox1.Visible = true;

textBox1.Clear();

groupBox1.Text = "Search Household ID";

button2.Visible = true;

priceLabel.Text = "$";

totalLabel.Text = "x";

}

else

{

groupBox1.Visible = false;

}

}

private void radioButton2\_CheckedChanged(object sender, EventArgs e)

{

if (!radioButton1.Checked && radioButton2.Checked)

{

groupBox1.Visible = true;

textBox1.Clear();

groupBox1.Text = "Search Publication ID";

button2.Visible = false;

priceLabel.Text = "$";

totalLabel.Text = "x";

}

else

{

groupBox1.Visible = false;

}

}

private void radioButton1\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

button1\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void radioButton2\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

button1\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void button2\_Click(object sender, EventArgs e)

{

if (button2.Visible == true && priceLabel.Text != "$")

{

priceLabel.Text = "$0.00";

MessageBox.Show("Congratulations! You paid your bill.");

}

}

private void textBox1\_KeyDown(object sender, KeyEventArgs e)

{

if (e.KeyCode == Keys.Enter)

{

button1\_Click(this, new EventArgs());

//press Enter to utilize the button

}

}

private void Form4\_Load(object sender, EventArgs e)

{

}

private void textBox1\_TextChanged\_1(object sender, EventArgs e)

{

}

}

}

**Output:**







