using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Data.SQLite;

using System.Drawing;

using System.Linq;

using System.Security.Principal;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

/\* C#arpenters Group Project

\* CPT 206 - Brandon Hines, Caleb Thompson, Kara Crumpton

\* Sports Stats Application

\*/

namespace Group\_Project\_Draft

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

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

{

Create createAccount = new Create();

createAccount.ShowDialog();

}

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

{

string username = nameBox.Text;

string password = passBox.Text;

if (ValidateLogin(username, password))

{

MessageBox.Show("Login Successful!", "Success!", MessageBoxButtons.OK, MessageBoxIcon.Exclamation);

Sports sportsForm = new Sports(username);

sportsForm.ShowDialog();

}

else

{

MessageBox.Show("Invalid username or password.", "Failure!", MessageBoxButtons.OK, MessageBoxIcon.Error);

}

}

private static string HashPassword(string password)

{

using (System.Security.Cryptography.SHA256 sha256 = System.Security.Cryptography.SHA256.Create())

{

byte[] hashBytes = sha256.ComputeHash(Encoding.UTF8.GetBytes(password));

return BitConverter.ToString(hashBytes).Replace("-", "").ToLower();

}

}

private bool ValidateLogin(string username, string password)

{

string connectionString = "Data Source=UserDatabase.db;Version=3;";

string hashedPassword = HashPassword(password); // Hash input to compare

using (SQLiteConnection conn = new SQLiteConnection(connectionString))

{

conn.Open();

string query = "SELECT COUNT(\*) FROM Users WHERE username=@username AND password\_hash=@password";

using (SQLiteCommand cmd = new SQLiteCommand(query, conn))

{

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

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

int count = Convert.ToInt32(cmd.ExecuteScalar());

return count > 0;

}

}

}

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

{

this.Close();

}

}

}