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using System;

using System.Drawing;

using System.Windows.Forms;

namespace EnhancedGuessNumberGame

{

public partial class Form1 : Form

{

private int randomNumber;

private int attempts;

private int maxAttempts = 10;

public Form1()

{

InitializeComponent();

StartNewGame();

}

private void StartNewGame()

{

attempts = 0;

textBoxGuess.Text = "";

labelFeedback.Text = "";

labelStatistics.Text = "";

buttonGuess.Enabled = true;

buttonNewGame.Enabled = false;

int min = (int)numericMinRange.Value;

int max = (int)numericMaxRange.Value;

Random rand = new Random();

randomNumber = rand.Next(min, max + 1);

labelInstruction.Text = $"Guess a number between {min} and {max}. Good luck!";

}

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

{

try

{

int userGuess = int.Parse(textBoxGuess.Text);

attempts++;

if (userGuess == randomNumber)

{

DisplayWinningMessage();

}

else if (userGuess > randomNumber)

{

labelFeedback.Text = "Too High! Aim lower.";

this.BackColor = Color.LightBlue;

}

else

{

labelFeedback.Text = "Too Low! Aim higher.";

this.BackColor = Color.LightPink;

}

UpdateStatistics();

CheckGameStatus();

}

catch

{

MessageBox.Show("Please enter a valid number.");

}

}

private void DisplayWinningMessage()

{

labelFeedback.Text = $"Congratulations! You found the number in {attempts} attempts.";

this.BackColor = Color.Green;

buttonGuess.Enabled = false;

buttonNewGame.Enabled = true;

}

private void UpdateStatistics()

{

labelStatistics.Text = $"Attempts: {attempts}";

}

private void CheckGameStatus()

{

if (attempts >= maxAttempts)

{

labelFeedback.Text = $"Sorry, you've reached the maximum attempts. The number was {randomNumber}.";

this.BackColor = Color.Red;

buttonGuess.Enabled = false;

buttonNewGame.Enabled = true;

}

}

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

{

StartNewGame();

}

}

}