PROG1017

Memo

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| To: | Cathy Burchill |
| From: | Daniel Oliveira |
| Date: | November 16, 2022 |
| Re: | Lab 4 |

For this lab, I had a problem with the “enabled” method. When I was testing the program, I realized that it was not possible to interact with the group box after the error message “People must be a whole number”. To fix that problem I changed the position of the code (I just upper the if-else chain).

The approximate time to do this code was about six hours.

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Diagnostics;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

namespace OliveiraLab4

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

/\* Name:Daniel Oliveira

\* Date:11/11/2022

\* This program books a trip and calculates the price \*/

/\*Name: ResetTrip

Sent: none

Returned:none

Performs a reset. The reset will hide grpTripInformation, select radCuba,blank txtPeople

and txtPrice, select radCreditCard put the cursor on txtPeople\*/

private void ResetTrip()

{

grpTripInformation.Hide();

radCuba.Checked = true;

txtPeople.Text = "";

lblPriceOutput.Text = "";

radCreditCard.Checked = true;

txtPeople.Focus();

}

/\*Name: SetFlight

Sent: none

Returned:none

If Florida is selected, there isn't flights but others locations include the flight\*/

private void SetFlight()

{

if(radCuba.Checked)

{

chkFlightIncluded.Checked = true;

}

if(radFlorida.Checked)

{

chkFlightIncluded.Checked = false;

}

if(radMexico.Checked)

{

chkFlightIncluded.Checked = true;

}

}

/\*Name: DisplayMsg

Sent: 2 strings

Returned:none

Displays a messagebox\*/

private void DisplayMsg(int msg)

{

switch (msg)

{

case 1:

grpBook.Enabled = true;

MessageBox.Show("People must be a whole number", "Input Error");

ResetTrip();

break;

case 2:

grpBook.Enabled = true;

MessageBox.Show("People must be between 1-10", "Input Error");

ResetTrip();

break;

case 3:

MessageBox.Show("Special when booking single or triple./n"

+"BOGO Special- Call 555-1212 to receive another person free!","Limit Time Offer");

break;

case 4:

MessageBox.Show("Trip booked and paid.\n" +

"Price: " + lblPriceOutput.Text, "Confirmation Email Sent");

break;

}

}

//Calls ResetTrip function

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

{

ResetTrip();

}

//Calls SetFlight function(if radCuba is cheked,radFlightIncluded is checked as well)

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

{

SetFlight();

}

//Calls SetFlight function(if radFlorida is cheked,radFlightIncluded isn't checked)

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

{

SetFlight();

}

//Calls SetFlight function(if radMexico is cheked,radFlightIncluded is checked as well)

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

{

SetFlight();

}

//Data validation and calculates the price

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

{

//Set the variables

bool validPeople;

int people;

double price = 0;

string location=null, flight=null, cashDiscount = null;

validPeople = int.TryParse(txtPeople.Text, out people);

//The user won't interact along with grpBook

grpBook.Enabled = false;

//Validating if people is int

if (validPeople == false)

{

DisplayMsg(1);

}

//Validating the range

else if (people < 0 || people > 10)

{

DisplayMsg(2);

}

//Cheking if people is equal to 1 or 3 to display a promotional message

else

{

switch (people)

{

case 1:

DisplayMsg(3);

break;

case 3:

DisplayMsg(3);

break;

}

//Calculate the price to Cuba with cash discount

if (radCuba.Checked && radCash.Checked)

{

price = people \* 2150.50;

location = "Cuba\n";

flight = "Flight included";

price = price - (price \* 0.1);

cashDiscount = "\nCash discount Applied";

}

//Calculate the price to Cuba without cash discount

if (radCuba.Checked && radCreditCard.Checked)

{

price = people \* 2150.50;

location = "Cuba\n";

flight = "Flight included";

cashDiscount = null;

}

//Calculate the price to Florida with cash discount

if (radFlorida.Checked && radCash.Checked)

{

price = people \* 2150.50;

location = "Florida";

flight = null;

price = price - (price \* 0.1);

cashDiscount = "\nCash discount Applied";

}

//Calculate the price to Florida without cash discount

if (radFlorida.Checked && radCreditCard.Checked)

{

price = people \* 2150.50;

location = "Florida";

flight = null;

cashDiscount = null;

}

//Calculate the price to Mexico with cash discount

if (radMexico.Checked && radCash.Checked)

{

price = people \* 2300.79;

location = "Mexico\n";

flight = "Flight included";

price = price - (price \* 0.1);

cashDiscount = "\nCash discount Applied";

}

//Calculate the price to Mexico without cash discount

if (radMexico.Checked && radCreditCard.Checked)

{

price = people \* 2300.79;

location = "Mexico\n";

flight = "Flight included";

cashDiscount = null;

}

//Display the data on laybels

lblPriceOutput.Text = price.ToString("C");

lblDisplay.Text = "";

lblDisplay.Text = "Bokked by Daniel \n \n" + "People: " + people.ToString("D2") +

"\n" + "Location: " + location + flight + cashDiscount + "\n" + "Price: "

+ price.ToString("C");

grpTripInformation.Visible = true;

}

}

//Confirm the operation and display a confirmation message

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

{

DisplayMsg(4);

grpBook.Enabled = true;

ResetTrip();

}

//Hide the lblDisplay

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

{

ResetTrip();

}

}

}