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1 'Program name: Karaoke Music Night
2 'Author:      Juan Carlos Flores Palacios
3 'Date:        Jan 29, 2023
4 'Purpose:     The Karaoke Music Night App determines the cost for
5 '             the hours or songs rented
6
7 Option Strict On
8 Public Class frmKaraokeMusic
9     'Consts declaration section
10     Const cdecCostPerSong As Decimal = 2.99D
11     Const cdecCostPerHour As Decimal = 8.99D
12
13
14     Private Sub frmKaraokeMusic_Load(sender As Object, e As EventArgs) Handles MyBase.Load
15         'This event is executed when the application starts
16         'It runs the splash screen and holds it for 3 seconds approximately
17         'It also sets some controls to their appropriate parameters
18
19         Threading.Thread.Sleep(3000)
20         lblShowMessage1.Visible = False
21         txtHoursOrSongs.Visible = True
22         btnTotalCost.Visible = True
23         btnClear.Visible = True
24     End Sub
25
26     Private Sub cboSelection_SelectedIndexChanged(sender As Object, e As EventArgs) Handles cboSelection.SelectedIndexChanged
27         'This event handler is executed when a choide is done by the user
28         'It enables the controls for the user to use the application
29         Dim intSelection As Integer
30         lblShowMessage2.Visible = False
31         lblTotalCost.Visible = False
32         btnTotalCost.Visible = True
33         btnClear.Visible = True
34         lblShowMessage1.Visible = True
35         txtHoursOrSongs.Visible = True
36         txtHoursOrSongs.Text = ""
37         txtHoursOrSongs.Focus()
38         intSelection = cboSelection.SelectedIndex
39         Select Case intSelection
40             Case 0
41                 PerSongSelection()
42             Case 1
43                 PerRoomSelection()
44         End Select
45
46
47     End Sub
48     Private Sub PerSongSelection()
49         lblShowMessage1.Text = "Enter number of songs to rent :"
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51 Private Sub PerRoomSelection()
52     lblShowMessage1.Text = "Enter number of hours to rent : "
53 End Sub
54 Private Function CostPerSong(ByVal intInput As Integer) As Decimal
55     Dim decCost As Decimal
56     decCost = cdecCostPerSong * intInput
57     Return decCost
58 End Function
59 Private Function CostPerHour(ByVal intInput As Integer) As Decimal
60     Dim decCost As Decimal
61     decCost = cdecCostPerHour * intInput
62     Return decCost
63 End Function
64
65 Private Sub btnTotalCost_Click(sender As Object, e As EventArgs) Handles btnTotalCost.Click
66     'This event handler is executed when user clicks the Total Cost button
67     'It verifies the selection and input user to make sure the information
68     'selected/entered by the user is the required to successfully run
69     'the application and show correct results
70
71     Dim blnValidateSelection As Boolean = False
72     Dim blnValidateInput As Boolean = False
73
74     blnValidateSelection = ValidateSelection(blnValidateSelection)
75     blnValidateInput = ValidateInput(blnValidateInput)
76
77     If (blnValidateSelection And blnValidateInput) Then
78         Dim decTotalCost As Decimal
79         Dim intInput As Integer
80         intInput = Convert.ToInt32(txtHoursOrSongs.Text)
81         lblShowMessage2.Visible = True
82         lblTotalCost.Visible = True
83         If cboSelection.SelectedIndex = 0 Then
84             lblShowMessage2.Text = "Total cost for all " &
85                                     txtHoursOrSongs.Text & " songs rent is:"
86             decTotalCost = CostPerSong(intInput)
87         ElseIf cboSelection.SelectedIndex = 1 Then
88             lblShowMessage2.Text = "Total cost for all " &
89                                     txtHoursOrSongs.Text & " hours rent is:"
90             decTotalCost = CostPerHour(intInput)
91         End If
92         lblTotalCost.Text = decTotalCost.ToString("C")
93     End If
94 End Sub
95 Private Function ValidateSelection(ByVal blnValidateSelection As Boolean) As Boolean
96     'This function ensures user selected a renting choice
97
98     Dim blnResult As Boolean
99     Dim intValue As Integer
100    Try

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99         intValue = Convert.ToInt32(cboSelection.SelectedIndex)
100         If intValue >= 0 Then
101             blnResult = True
102         Else
103             blnResult = False
104             MsgBox("Select a renting choice",, "Error")
105         End If
106
107     Catch ex As Exception
108         MsgBox("Select a renting choice",, "Error")
109         blnResult = False
110     End Try
111
112     Return blnResult
113 End Function
114 Private Function ValidateInput(ByVal blnValidateInput As Boolean) As Boolean
115     'Thisfunction ensures user entered a valid value in txtHoursOrSongs text ↗
116     box
117
118     Dim intValue As Integer
119     Dim strMessageBoxTitle As String = "Error"
120     Try
121         intValue = Convert.ToInt32(txtHoursOrSongs.Text)
122         If intValue > 0 Then
123             blnValidateInput = True
124         Else
125             MsgBox("Please enter a valid number",, strMessageBoxTitle)
126             txtHoursOrSongs.Focus()
127             txtHoursOrSongs.Clear()
128             blnValidateInput = False
129         End If
130     Catch Exception As FormatException
131         MsgBox("Please enter a valid number",, strMessageBoxTitle)
132         txtHoursOrSongs.Focus()
133         txtHoursOrSongs.Clear()
134         blnValidateInput = False
135     Catch Exception As OverflowException
136         MsgBox("Please enter a valid number",, strMessageBoxTitle)
137         txtHoursOrSongs.Focus()
138         txtHoursOrSongs.Clear()
139         blnValidateInput = False
140     Catch Exception As SystemException
141         MsgBox("Please enter a valid number",, strMessageBoxTitle)
142         txtHoursOrSongs.Focus()
143         txtHoursOrSongs.Clear()
144         blnValidateInput = False
145     End Try
146     Return blnValidateInput
147 End Function
148 Private Sub btnClear_Click(sender As Object, e As EventArgs) Handles ↗
    btnClear.Click

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149      'This event handler is excuted when user clicks the Clear button
150      'It sets the controls visible property to false and it clears the
151      'text txtHoursOrSongs property. It also leaves the cboSelection combo box ↗

152      'ready for the user to do a new selection
153      lblShowMessage1.Visible = False
154      lblShowMessage2.Visible = False
155      lblTotalCost.Visible = False
156      txtHoursOrSongs.Visible = True
157      btnTotalCost.Visible = True
158      btnClear.Visible = True
159      txtHoursOrSongs.Text = ""
160      txtHoursOrSongs.Focus()
161      cboSelection.SelectedIndex = -1
162      cboSelection.Text = "Select a renting choice:"
163  End Sub
164
165 End Class
166
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