Public Class Hangman

Dim word, lives, letters\_left, letter, underscores As String

Dim food() As String = {"Pizza", "Burger", "Lasagne", "Curry", "Quiche"}

Dim sport() As String = {"Football", "Basketball", "Cricket", "Badminton", "Volleyball"}

Dim countries() As String = {"Portugal", "Paraguay", "Jamaica", "Malaysia", "Ethiopia"}

Dim oDice As New Random

Dim iDiceResult As Integer = oDice.Next(1, 5)

Private Sub Hangman\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

Call mnuFileReset\_Click(sender, e)

Call reset()

End Sub

Private Sub btnGuessLetter\_Click(sender As Object, e As EventArgs) Handles btnGuessLetter.Click

Call full\_word()

Call lives\_check()

letter = txtLetter.Text

letter = letter.Trim

word = UCase(word)

txtLetter.MaxLength = 1

If mnuCategoriesFood.Enabled = True Or mnuCategoriesSport.Enabled = True Or mnuCategoriesCountries.Enabled = True Then

MsgBox("You need to select a category from the menu or the combo box!", 48, "Category needs selecting!")

txtLetter.Clear()

Exit Sub

End If

If letter.Trim = "" Then

MsgBox("You need to enter in a letter!", vbExclamation, "No letter!")

Exit Sub

End If

If letter Like "\*[a-z]\*" Then

letter = UCase(letter)

End If

If letter Like "\*[A-Z]\*" Then

Dim count As Integer

For count = 0 To pnlAlphabet.Controls.Count - 1

If pnlAlphabet.Controls.Item(count).Text = letter Then

If pnlAlphabet.Controls.Item(count).ForeColor <> SystemColors.ControlText Then

MsgBox("You have already guessed that letter!", vbExclamation, "Double Guess!")

Exit Sub

End If

End If

Next

If word.Contains(letter) Then

For count = 0 To pnlAlphabet.Controls.Count - 1

If pnlAlphabet.Controls.Item(count).Text = letter Then

pnlAlphabet.Controls.Item(count).ForeColor = Color.Green

End If

Next

Dim Current\_Word As String = lblUnderscores.Text

Dim word\_characters() = Current\_Word.ToCharArray()

For count = 0 To Len(word) - 1

If word.Chars(count) = letter Then

word\_characters(2 \* count) = letter

End If

Next

Dim new\_word As String = word\_characters

Call lives\_count()

lblUnderscores.Text = new\_word

txtLetter.Clear()

Else

For count = 0 To pnlAlphabet.Controls.Count - 1

If pnlAlphabet.Controls.Item(count).Text = letter Then

pnlAlphabet.Controls.Item(count).ForeColor = Color.Red

End If

Next

Call Wrong\_Guess()

End If

ElseIf letter Like " \*[0-9]\*" Then

MsgBox("You entered a number! You cannot enter numbers!", vbExclamation, "Number entered!")

txtLetter.Clear()

Exit Sub

Else

MsgBox("You have entered in a symbol! You cannot enter symbols!", vbExclamation, "Symbol entered!")

txtLetter.Clear()

Exit Sub

End If

Call full\_word()

Call lives\_check()

End Sub

Private Sub btnGuessWord\_Click(sender As Object, e As EventArgs) Handles btnGuessWord.Click

Dim Input\_Word As String

Input\_Word = InputBox("What is the word?")

If LCase(Input\_Word) = LCase(word) Then

Call You\_Win()

Else

Call Wrong\_Guess()

End If

End Sub

Private Sub mnuFileReset\_Click(sender As Object, e As EventArgs) Handles mnuFileReset.Click

Call reset()

End Sub

Private Sub mnuCategoriesFood\_Click(sender As Object, e As EventArgs) Handles mnuCategoriesFood.Click

If mnuCategoriesFood.Checked = True Then

mnuCategoriesFood.Enabled = False

mnuCategoriesSport.Enabled = False

mnuCategoriesCountries.Enabled = False

Call makeUnderscores(word)

comboCategories.Text = "Food"

word = food(iDiceResult.ToString)

lblUnderscores.Visible = True

End If

End Sub

Private Sub mnuCategoriesSport\_Click(sender As Object, e As EventArgs) Handles mnuCategoriesSport.Click

If mnuCategoriesSport.Checked = True Then

mnuCategoriesFood.Enabled = False

mnuCategoriesSport.Enabled = False

mnuCategoriesCountries.Enabled = False

Call makeUnderscores(word)

comboCategories.Text = "Sport"

word = sport(iDiceResult.ToString)

lblUnderscores.Visible = True

End If

End Sub

Private Sub mnuCategoriesCountries\_Click(sender As Object, e As EventArgs) Handles mnuCategoriesCountries.Click

If mnuCategoriesCountries.Checked = True Then

mnuCategoriesFood.Enabled = False

mnuCategoriesSport.Enabled = False

mnuCategoriesCountries.Enabled = False

Call makeUnderscores(word)

comboCategories.Text = "Countries"

word = countries(iDiceResult.ToString)

lblUnderscores.Visible = True

End If

End Sub

Private Sub cbmoCategories\_SelectedIndexChanged(sender As Object, e As EventArgs) Handles comboCategories.SelectedIndexChanged

Call Clear\_Checked()

If comboCategories.SelectedIndex = 0 Then

mnuCategoriesFood.Checked = True

Call mnuCategoriesFood\_Click(sender, e)

ElseIf comboCategories.SelectedIndex = 1 Then

mnuCategoriesSport.Checked = True

Call mnuCategoriesSport\_Click(sender, e)

ElseIf comboCategories.SelectedIndex = 2 Then

mnuCategoriesCountries.Checked = True

Call mnuCategoriesCountries\_Click(sender, e)

Else

comboCategories.Text = "Unknown"

End If

End Sub

Private Sub makeUnderscores(word As String)

Dim blank\_string As String = ""

Dim count As Integer

underscores = Len(word)

letters\_left = Len(word)

lblLettersCount.Text = letters\_left

For count = 0 To Len(word) - 1

blank\_string += "\_" & " "

Next

lblUnderscores.Text = blank\_string

End Sub

Sub Wrong\_Guess()

lives = lives - 1

MsgBox("You have guessed wrong! You will lose a life!", vbExclamation, "Wrong Guess!")

Call lives\_check()

End Sub

Sub You\_Win()

MsgBox("You win!", vbInformation, "Congratulations!")

lblUnderscores.Text = word

txtLetter.Clear()

End Sub

Sub Clear\_Checked()

mnuCategoriesFood.Checked = False

mnuCategoriesSport.Checked = False

mnuCategoriesCountries.Checked = False

End Sub

Sub lives\_count()

Call lives\_check()

End Sub

Sub lives\_check()

If lives = 6 Then

picHangman.Image = My.Resources.\_6\_lives

Call lives\_count()

ElseIf lives = 5 Then

picHangman.Image = My.Resources.\_5\_lives

Call lives\_count()

ElseIf lives = 4 Then

picHangman.Image = My.Resources.\_4\_lives

Call lives\_count()

ElseIf lives = 3 Then

picHangman.Image = My.Resources.\_3\_lives

Call lives\_count()

ElseIf lives = 2 Then

picHangman.Image = My.Resources.\_2\_lives

Call lives\_count()

ElseIf lives = 1 Then

picHangman.Image = My.Resources.\_1\_life

Call lives\_count()

ElseIf lives = 0 Then

picHangman.Image = My.Resources.\_0\_lives

Call lives\_count()

MsgBox("Hangman!", vbCritical, "Hangman!")

End If

lblLivesCount.Text = lives

End Sub

Sub full\_word()

If lblUnderscores.Text = word Then

MsgBox("You win!", vbOKOnly, "Congratulations!")

lblUnderscores.Text = word

txtLetter.Clear()

End If

End Sub

Sub reset()

lives = 6

letters\_left = 0

lblLettersCount.Text = letters\_left

comboCategories.Text = "Unknown"

txtLetter.Clear()

mnuCategoriesFood.Enabled = True

mnuCategoriesSport.Enabled = True

mnuCategoriesCountries.Enabled = True

mnuCategoriesFood.Checked = False

mnuCategoriesSport.Checked = False

mnuCategoriesCountries.Checked = False

lblUnderscores.Visible = False

picHangman.Image = My.Resources.\_6\_lives

Dim count As Integer

For count = 0 To pnlAlphabet.Controls.Count - 1

If pnlAlphabet.Controls.Item(count).Text = letter Then

pnlAlphabet.Controls.Item(count).ForeColor = SystemColors.ControlText

End If

Next

End Sub

Private Sub mnuFileDetails\_Click(sender As Object, e As EventArgs) Handles mnuFileDetails.Click

MsgBox("This Is a game of Hangman made in Visual Basic by Tom H.", 0, "Details: ")

End Sub

Private Sub mnuMainExit\_Click(sender As Object, e As EventArgs) Handles mnuMainExit.Click

Me.Close()

End Sub

Private Sub mnuHelpCenter\_Click(sender As Object, e As EventArgs) Handles mnuHelpCenter.Click

MsgBox("This is my hangman game which you can play right now! Choose a category from the menu and the guess a letter!", vbInformation, "Help Centre")

End Sub

End Class