Imports System

Imports System.Data

Imports System.Data.SqlClient

Imports System.IO

Imports System.Configuration

Imports BAL

Imports DAL

Public Class ClinicianOff

    Dim clinicianConversion As INameConversion = New ClinicianNameConversion

    Dim intervals As IEvaluateDateTimeIntervals = New datetimeIntervalConversion

    Dim scheduleClinician As IscheduleClinican = New alterSchedule

    Private Sub Button1\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button1.Click

'Capture user input for scheduling the selected clinician to be   out / off

        Dim setupClinicians As New Clinicians

        Dim ClinicianProfile As New Schedule

        Dim dateintervals As New ArrayList

        Dim timeintervals As New ArrayList

        Dim conflicts As New List(Of AutoSelectConflicts)

        Dim Dayofweek() As String = {"unassigned", "unassigned", "unassigned", "unassigned", "unassigned", "unassigned", "unassigned"}

        If ComboBox1.SelectedValue = "" Then

            MsgBox("You must provide a Clinician!")

            Exit Sub

        ElseIf ComboBox2.SelectedItem = "" Then

            MsgBox("You must provide a Start Time!")

            Exit Sub

        ElseIf ComboBox3.SelectedItem = "" Then

            MsgBox("You must provide a Finish Time!")

            Exit Sub

        Else

            If Monday.Checked = True Then 'Mon

                Dayofweek(0) = "Monday"

            Else

                Dayofweek(0) = "Unassigned"

            End If

            If Tuesday.Checked = True Then 'Tues

                Dayofweek(1) = "Tuesday"

            Else

                Dayofweek(1) = "Unassigned"

            End If

            If Wednesday.Checked = True Then 'Wed

                Dayofweek(2) = "Wednesday"

            Else

                Dayofweek(2) = "Unassigned"

            End If

            If Thursday.Checked = True Then 'Thurs

                Dayofweek(3) = "Thursday"

            Else

                Dayofweek(3) = "Unassigned"

            End If

            If Friday.Checked = True Then 'Fri

                Dayofweek(4) = "Friday"

            Else

                Dayofweek(4) = "Unassigned"

            End If

            If Saturday.Checked = True Then  'Sat

                Dayofweek(5) = "Saturday"

            Else

                Dayofweek(5) = "Unassigned"

            End If

            If Sunday.Checked = True Then  'Sun

                Dayofweek(6) = "Sunday"

            Else

                Dayofweek(6) = "Unassigned"

            End If

            Dim date1, date2, t1, t2 As String

            date1 = DateTimePicker1.Value.ToString("M/dd/yyyy")

            date2 = DateTimePicker2.Value.ToString("M/dd/yyyy")

            t1 = ComboBox2.SelectedItem

            t2 = ComboBox3.SelectedItem

            Dim Clinicianname As String = ComboBox1.SelectedValue

            Dim dy1, dy2 As DateTime

            dy1 = Convert.ToDateTime(DateTimePicker1.Value)

            dy2 = Convert.ToDateTime(DateTimePicker2.Value)

            'Return all the dates chosen

      dateintervals = intervals.dateIntervals(date1.Trim, date2.Trim, Dayofweek)

            Dim maxdates As Integer = dateintervals.Count - 1

            If maxdates < 0 Then

                MsgBox("You must select a day that corresponds to the date.")

                Exit Sub

            End If

'Check for any schedule conflicts with any student and store the conflict in a generic collection

            Dim conflictflag As Boolean = False

        Dim checkForStudentConflicts As IScheduleConflicts = New StudentConflict()

            Dim newday As Date

            Dim x As Integer = 0

            newday = dateintervals(x)

            Do While x <= dateintervals.Count - 1

                date1 = dateintervals(x)

                checkForStudentConflicts.ConflictWithAnotherStudent(Clinicianname.Trim, date1.Trim, date1.Trim, t1.Trim, t2.Trim, conflicts)

                x = x + 1

            Loop

            Dim dataTemplate As New ScheduleTemplate

            Dim dt As DataTable

            dt = dataTemplate.Scheduleconflict()

            Dim dr As DataRow

            Dim studentnameConflict As String = String.Empty

'Check for stored conflicts between the clinician and student(s)

            conflictingstudent = conflicts.Count - 1

            If conflictingstudent > -1 Then

MsgBox("There are students who need to be rescheduled to a different date and time")

                For i = 0 To conflictingstudent

                    p = CType(conflicts(i), AutoSelectConflicts)

                    studentnameConflict = p.name

                    conflictType = p.ConflictType

                    conflictDate = p.ScheduledDate

                    conflictTimeIn = p.DestinationTimeIn

                    conflictTimeOut = p.DestinationTimeout

                    conflictwithstudent = p.ConflictType

                    dr = dt.NewRow

                    dr("student") = studentnameConflict

                    dr("Date") = conflictDate

                    dr("TimeIn") = conflictTimeIn

                    dr("TimeOut") = conflictTimeOut

                    dt.Rows.Add(dr)

                Next

'Display discovered conflict into GridView2

                DataGridView2.DataSource = dt

                DataGridView2.Columns(1).Visible = False

                DataGridView2.Columns(0).Width = 150

            Else

                'Save the scheduled days off

                Dim clinicianid As String = String.Empty

                Dim duplicate As Boolean = False

                Dim dateout As Date

                clinicianid = clinicianConversion.convertToId(Clinicianname)

                For x = 0 To dateintervals.Count - 1

                    dateout = Convert.ToDateTime(dateintervals(x))

                    duplicate = scheduleClinician.UpdateSchedule(clinicianid.Trim, dateout, t1.Trim, t2.Trim)

                Next

                If duplicate = False Then

MsgBox(ComboBox1.SelectedValue.Trim & " has been scheduled to be off")

                ElseIf duplicate = True Then

MsgBox(Clinicianname & " has been already scheduled off within this date range!")

                End If

            End If

        End If

        HomeDisplay.Show()

        HomeDisplay.Removerows(HomeDisplay.MonthCalendar1.SelectionStart)

        DisplaySetup()

    End Sub

    'Load all active clinician names into Combobox1

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

        Dim Scheduleinfo As New IPopulateNames

        Dim ds1 As New DataSet

        ds1 = Scheduleinfo.DisplayClinician(False)

        Dim dt1 As DataTable = ds1.Tables("clinicianList")

        ComboBox1.DataSource = dt1

        ComboBox1.DisplayMember = "clinicianFullName"

        ComboBox1.ValueMember = "clinicianFullName"

    End Sub

    'Display clinician's off dates within the gridview1 control

    Private Sub Button2\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button2.Click

        DisplaySetup()

    End Sub

    'Display clincian's off dates within the gridview1 control

    Public Sub DisplaySetup()

        Dim convertName As INameConversion = New ClinicianNameConversion

        Dim Clinicianoutput As New ScheduleConfig

        Dim Clinicianname As String = Nothing

        Clinicianname = ComboBox1.SelectedValue

        If Clinicianname = String.Empty Then

            MsgBox("You must Provide a Clinician Name")

            Exit Sub

        End If

        Dim ClinicianProfile As New Schedule

        Dim date1 As String = DateTimePicker3.Value.ToString("M/dd/yyyy")

        Dim date2 As String = DateTimePicker4.Value.ToString("M/dd/yyyy")

        Dim clinicianid As String = String.Empty

        clinicianid = convertName.convertToId(Clinicianname)

        Dim dt As DataTable

        dt = Clinicianoutput.clinicianOutSchedule(clinicianid.Trim, date1, date2)

        DataGridView1.DataSource = dt

        DataGridView1.Columns(1).Width = 200

        DataGridView1.Columns(2).Width = 75

        DataGridView1.Columns(3).Width = 75

    End Sub

Private Sub Button4\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button4.Click

        Me.Close()

    End Sub

    Private Sub SplitContainer1\_Panel2\_Paint(ByVal sender As System.Object, ByVal e As System.Windows.Forms.PaintEventArgs)

    End Sub

    Private Sub Button5\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button5.Click

        SchedulingConsole.Show()

    End Sub

    Private Sub CheckBox1\_CheckedChanged\_1(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles CheckBox1.CheckedChanged

        For i = 0 To DataGridView1.RowCount - 1

            If CheckBox1.Checked = True Then

                DataGridView1.Rows(i).Cells(0).Value = True

            ElseIf CheckBox1.Checked = False Then

                DataGridView1.Rows(i).Cells(0).Value = False

            End If

        Next

    End Sub

'Remove any scheduled off days.

    Private Sub Button3\_Click\_1(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button3.Click

        Dim intervals As IEvaluateDateTimeIntervals = New datetimeIntervalConversion

        Dim clinicianConversion As INameConversion = New ClinicianNameConversion

        Dim Clinicianoutput As New ScheduleConfig

        Dim ClinicianProfile As New Schedule

 Dim Daysofweek() As String = {"Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"}

        Dim row As DataGridViewRow = Nothing

        Dim totalTime As New ArrayList

        Dim appointment As String

        Dim StartTime As String

        Dim EndTime As String

        Dim clinicianid As String = String.Empty

        Dim StudentName As String = String.Empty

        Clinicianname = ComboBox1.SelectedValue

        Dim maxrows As Integer = DataGridView1.Rows.Count

        Dim counter As Integer = -1

        Dim DeleteDate(maxrows, 4) As String

'Scan each row for a checkbox that is set to true

        For i = 0 To DataGridView1.RowCount - 1

'If checkbox is set to true then store each column item into a   two dimensional array

'First element of the array represents the row index, and the second number represents the attribute of the column

            If DataGridView1.Rows(i).Cells(0).Value = True Then

            'Increment counter that represents the row index by 1

                counter = counter + 1

                'Store each label into its respective variable

                appointment = DataGridView1.Rows(i).Cells(1).Value

                StartTime = DataGridView1.Rows(i).Cells(2).Value

                EndTime = DataGridView1.Rows(i).Cells(3).Value

                clinicianid = clinicianConversion.convertToId(Clinicianname)

                DeleteDate(counter, 0) = appointment

                DeleteDate(counter, 1) = StartTime

                DeleteDate(counter, 2) = EndTime

                DeleteDate(counter, 3) = clinicianid.Trim

'Calculate the time interval between the start time and end time to erase the contents of the text box in the Main Gridview  display.

'Contents must be set to a in the currently displayed Gridview blank string

                totalTime = intervals.timeIntervals(StartTime.Trim, EndTime.Trim)

            End If

        Next

'Delete the respective intervals by passing the array of selected row items and the days of the week

        Dim clinicianSchedule As IscheduleClinician = New clincianScheduledOff

        clinicianSchedule.deleteClinicianOffdays(DeleteDate, Daysofweek)

        'Display the updated gridview

        Dim date1 As String = DateTimePicker3.Value.ToString("M/dd/yyyy")

        Dim date2 As String = DateTimePicker4.Value.ToString("M/dd/yyyy")

        Clinicianname = ComboBox1.SelectedValue

        clinicianid = clinicianConversion.convertToId(Clinicianname)

        dt = Clinicianoutput.clinicianOutSchedule(clinicianid.Trim, date1, date2)

        DataGridView1.DataSource = dt

        HomeDisplay.Show()

        HomeDisplay.Removerows(HomeDisplay.MonthCalendar1.SelectionStart)

        DisplaySetup()

    End Sub

    Private Sub Button7\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button7.Click

        Me.Close()

    End Sub

Private Sub DateTimePicker3\_ValueChanged(sender As System.Object, e As System.EventArgs) Handles DateTimePicker3.ValueChanged

        DateTimePicker4.Value = DateTimePicker3.Value

    End Sub

Private Sub DateTimePicker1\_ValueChanged(sender As System.Object, e As System.EventArgs) Handles DateTimePicker1.ValueChanged

        DateTimePicker2.Value = DateTimePicker1.Value

    End Sub

End Class

