Source Code

**1.LoginForm**

Public Class LoginForm

Public Sub New()

' This call is required by the designer.

InitializeComponent()

' Add any initialization after the InitializeComponent() call.

Me.FormBorderStyle = FormBorderStyle.None

End Sub

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

Me.Close()

End Sub

Private Sub Button1\_Click\_1(sender As Object, e As EventArgs) Handles btnLogin.Click

If CheckField() Then

If User.CheckLogin(txtUserName.Text.Trim(), txtPassWord.Text.Trim()) Then

MainForm.Visible = True

Me.Hide()

Else

MessageBox.Show("ឈ្មោះអ្នកប្រើប្រាស់ ឬ ពាក្យសម្ងាត់មិនត្រឹមត្រូវទេ", "ការព្រមាន", MessageBoxButtons.OK, MessageBoxIcon.Warning)

txtUserName.Focus()

End If

End If

End Sub

Function CheckField() As Boolean

If txtUserName.Text = "" Then

MessageBox.Show("សូមបញ្ចូលឈ្មោះអ្នកប្រើប្រាស់", "ការព្រមាន", MessageBoxButtons.OK, MessageBoxIcon.Warning)

txtUserName.Focus()

Return False

Else

If txtPassWord.Text = "" Then

MessageBox.Show("សូមបញ្ចូលពាក្យសម្ងាត់", "ការព្រមាន", MessageBoxButtons.OK, MessageBoxIcon.Warning)

txtPassWord.Focus()

Return False

Else

Return True

End If

End If

End Function

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

If txtPassWord.UseSystemPasswordChar = True Then

txtPassWord.UseSystemPasswordChar = False

btnShowHide.IconChar = FontAwesome.Sharp.IconChar.EyeSlash

Else

txtPassWord.UseSystemPasswordChar = True

btnShowHide.IconChar = FontAwesome.Sharp.IconChar.Eye

End If

End Sub

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

Me.Close()

End Sub

Private Sub txtPassWord\_KeyDown(sender As Object, e As KeyEventArgs) Handles txtPassWord.KeyDown

If e.KeyCode = Keys.Enter Then

btnLogin.PerformClick()

End If

End Sub

End Class

**2.MainForm**

Imports FontAwesome.Sharp

Public Class MainForm

Private currentBtn As IconButton

Private leftBorderBtn As Panel

Private currentChildForm As Form

Public login As Integer

'Constructor

Public Sub New**()**

' This call is required by the designer.

InitializeComponent**()**

'Add any initialization after the InitializeComponent() call.

Me.FormBorderStyle **=** FormBorderStyle.None

leftBorderBtn **=** New Panel**()**

leftBorderBtn.Size **=** New Size**(10,** btnReport.Height**)**

panelMenu.Controls.Add**(**leftBorderBtn**)**

Me.DoubleBuffered **=** True

Me.MaximizedBounds **=** Screen.FromHandle**(**Me.Handle**).**WorkingArea

Dim test As LoginForm **=** New LoginForm**()**

login **=** test.ShowDialog**()**

lbUsername.Text **=** lbUsername.Tag.ToString**()** **&** User.userName

End Sub

Private Sub Activatebutton**(**senderBtn As Object**,** customColor As Color**)**

If senderBtn IsNot Nothing Then

DisableButton**()**

currentBtn **=** CType**(**senderBtn**,** IconButton**)**

currentBtn.BackColor **=** ThemeColor.ChangeColorBrightness**(**customColor**,** **-0.7)**

currentBtn.ForeColor **=** ThemeColor.ChangeColorBrightness**(**customColor**,** **0.5)**

currentBtn.IconColor **=** ThemeColor.ChangeColorBrightness**(**customColor**,** **0.5)**

currentBtn.Font **=** New Font**(**currentBtn.Font.FontFamily**,** **12.0,** FontStyle.Bold**)**

If panelMenu.Width **>=** **200** Then

currentBtn.ImageAlign **=** ContentAlignment.MiddleRight

currentBtn.Padding **=** New Padding**(10,** **0,** **20,** **0)**

End If

'Left Border

leftBorderBtn.BackColor **=** customColor

leftBorderBtn.Location **=** New Point**(0,** currentBtn.Location.Y**)**

leftBorderBtn.Visible **=** True

leftBorderBtn.BringToFront**()**

'Current Form Icon

IconCurrentForm.IconChar **=** currentBtn.IconChar

IconCurrentForm.IconColor **=** ThemeColor.ChangeColorBrightness**(**customColor**,** **0.5)**

'Current Form Title

lbFormTitle.Text **=** LTrim**(**currentBtn.Tag.ToString**)**

Dim middle As Integer **=** **((**panelTitlebar.Size.Width **/** **2)** **-** **(**lbFormTitle.Size.Width **/** **2))**

lbFormTitle.Location **=** New Point**(**middle**,** lbFormTitle.Location.Y**)**

End If

End Sub

Private Sub DisableButton**()**

If currentBtn IsNot Nothing Then

currentBtn.BackColor **=** ThemeColor.menuBackColor

currentBtn.ForeColor **=** Color.Gainsboro

currentBtn.IconColor **=** Color.Gainsboro

currentBtn.Font **=** New Font**(**currentBtn.Font.FontFamily**,** **10.0,** FontStyle.Bold**)**

currentBtn.ImageAlign **=** ContentAlignment.MiddleLeft

currentBtn.Padding **=** New Padding**(10,** **0,** **20,** **0)**

If panelMenu.Width **<** **200** Then

currentBtn.ImageAlign **=** ContentAlignment.MiddleCenter

End If

End If

End Sub

'Open Child Form

Private Sub OpenChildForm**(**childForm As Form**)**

If currentChildForm IsNot Nothing Then

currentChildForm.Close**()**

End If

currentChildForm **=** childForm

childForm.TopLevel **=** False

childForm.FormBorderStyle **=** FormBorderStyle.None

childForm.Dock **=** DockStyle.Fill

panelChildForm.Controls.Add**(**childForm**)**

'panelChildForm.Tag = childForm

childForm.BringToFront**()**

childForm.Show**()**

End Sub

Private Sub Reset**()**

DisableButton**()**

leftBorderBtn.Visible **=** False

IconCurrentForm.IconChar **=** IconChar.Home

IconCurrentForm.IconColor **=** Color.Gainsboro

lbFormTitle.Text **=** "Home"

End Sub

Private Sub BtnDashboard\_Click**(**sender As Object**,** e As EventArgs**)** Handles btnDashboard.Click

Activatebutton**(**sender**,** ThemeColor.DashboardColor**)**

OpenChildForm**(**New DashboardForm**())**

End Sub

Private Sub BtnStudent\_Click**(**sender As Object**,** e As EventArgs**)** Handles btnRegister.Click

Activatebutton**(**sender**,** ThemeColor.activeColor**)**

OpenChildForm**(**New RegisterForm**())**

End Sub

Private Sub btnClose\_Click**(**sender As Object**,** e As EventArgs**)**

Application.Exit**()**

End Sub

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

Activatebutton**(**sender**,** ThemeColor.activeColor**)**

OpenChildForm**(**New SubjectForm**())**

End Sub

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

Activatebutton**(**sender**,** ThemeColor.activeColor**)**

OpenChildForm**(**New TeachersForm**())**

End Sub

Private Sub btnStudent\_Click\_1**(**sender As Object**,** e As EventArgs**)** Handles btnStudent.Click

Activatebutton**(**sender**,** ThemeColor.activeColor**)**

OpenChildForm**(**New StudentForm**())**

End Sub

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

Activatebutton**(**sender**,** ThemeColor.activeColor**)**

OpenChildForm**(**New CourseForm**())**

End Sub

Private Sub btnClose\_Click\_1**(**sender As Object**,** e As EventArgs**)** Handles btnClose.Click

Application.Exit**()**

End Sub

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

Me.WindowState **=** FormWindowState.Minimized

End Sub

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

If login **=** **2** Then

Application.Exit**()**

End If

btnDashboard.PerformClick**()**

End Sub

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

Activatebutton**(**sender**,** ThemeColor.activeColor**)**

OpenChildForm**(**New ReportForm**())**

End Sub

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

Activatebutton**(**sender**,** ThemeColor.activeColor**)**

OpenChildForm**(**New AboutSystemForm**())**

End Sub

End Class

**3.DashboardForm**

Imports System.Windows.Forms.DataVisualization.Charting

Imports Guna.UI2.WinForms

Public Class DashboardForm

Dim dashboard As New Dashboard()

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

lbTotalStudnet.Text = dashboard.totalStudent.ToString()

lbCompleteStudent.Text = dashboard.completeStudent.ToString()

lbTotalClass.Text = dashboard.totalCourse

lbCompleteClass.Text = dashboard.completeCourse

lbTotalTeacher.Text = dashboard.totalTeacher

lbTotalCourse.Text = dashboard.TotalSubject

'Insert Data to chart

StudentChart.DataSource = dashboard.CourseList

StudentChart.Series(0).XValueMember = "Key"

StudentChart.Series(0).YValueMembers = "Value"

StudentChart.DataBind()

StudentChart.Legends(0).CustomItems.Clear()

CourseChart.DataSource = dashboard.SubjectList

CourseChart.Series(0).XValueMember = "Key"

CourseChart.Series(0).YValueMembers = "Value"

CourseChart.DataBind()

'Insert Data To DG CourseCoomingSoon

CoomingCouseList.DataSource = dashboard.CourseCoomingSoon()

With CoomingCouseList

.Columns(0).Width = 60

.Columns(0).HeaderText = "Nº"

.Columns(0).SortMode = DataGridViewColumnSortMode.NotSortable

.Columns(0).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

.Columns(1).Width = 150

.Columns(1).HeaderText = "មុខវិជ្ជា"

.Columns(1).SortMode = DataGridViewColumnSortMode.NotSortable

.Columns(1).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleLeft

.Columns(2).Width = 100

.Columns(2).HeaderText = "ថ្ងៃចូលរៀន"

.Columns(2).SortMode = DataGridViewColumnSortMode.NotSortable

.Columns(2).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

.Columns(3).Width = 90

.Columns(3).HeaderText = "សិស្សសរុប"

.Columns(3).SortMode = DataGridViewColumnSortMode.NotSortable

.Columns(3).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

End With 'Insert Data To DG CourseCoomingSoon

dgSubjectList.DataSource = dashboard.GetSubjectList()

With dgSubjectList

.Columns(0).Width = 80

.Columns(0).HeaderText = "លេខកូដ"

.Columns(0).SortMode = DataGridViewColumnSortMode.NotSortable

.Columns(0).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

.Columns(1).Width = 170

.Columns(1).HeaderText = "មុខវិជ្ជា"

.Columns(1).SortMode = DataGridViewColumnSortMode.NotSortable

.Columns(1).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleLeft

.Columns(2).Width = 100

.Columns(2).HeaderText = "វគ្គសិក្សាសរុប"

.Columns(2).SortMode = DataGridViewColumnSortMode.NotSortable

.Columns(2).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

.Columns(3).Width = 90

.Columns(3).HeaderText = "បានបញ្ចប់"

.Columns(3).SortMode = DataGridViewColumnSortMode.NotSortable

.Columns(3).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

.Columns(4).Width = 90

.Columns(4).HeaderText = "សិស្សសរុប"

.Columns(4).SortMode = DataGridViewColumnSortMode.NotSortable

.Columns(4).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

End With

End Sub

End Class

**4.RegisterForm**Imports System.Data.OleDb

Imports System.Data.SqlTypes

Imports System.IO

Imports CrystalDecisions.CrystalReports.Engine

Imports CrystalDecisions.Shared

Imports Guna.UI2.WinForms

Imports Microsoft.SqlServer

Public Class RegisterForm

Dim register As New Register**()**

Dim startup As Boolean **=** True

Public Sub New**()**

' This call is required by the designer.

InitializeComponent**()**

' Add any initialization after the InitializeComponent() call.

GetCbSubject**()**

GetCbAddress**()**

picStudent.ImageLocation **=** Application.StartupPath **&** "\Images\default.png"

End Sub

Sub Display**()**

DataGridView1.DataSource **=** register.GetRegisterData**()**

Regonize**()**

End Sub

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

OpenPic.Filter **=** "Image Files|\*.jpg;\*.jpeg;\*.png;\*.bmp"

OpenPic.Title **=** "Select a Picture"

OpenPic.InitialDirectory **=** Environment.GetFolderPath**(**Environment.SpecialFolder.MyPictures**)**

If OpenPic.ShowDialog**()** **=** DialogResult.OK Then

Dim filePath As String **=** OpenPic.FileName

picStudent.ImageLocation **=** filePath

End If

End Sub

Private Function CheckField**()** As Boolean

If txtKhName.Text.Length **<=** **0** Then

MessageBox.Show**(**"សូមបញ្ចូលឈ្មោះសិស្ស"**,** "Warning"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Warning**)**

txtKhName.Focus**()**

Return False

End If

If txtEngName.Text.Length **<=** **0** Then

MessageBox.Show**(**"សូមបញ្ចូលឈ្មោះឡាតាំងរបស់សិស្ស"**,** "Warning"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Warning**)**

txtEngName.Focus**()**

Return False

End If

If cbAddress.SelectedIndex **=** cbAddress.Items.Count **-** **1** Then

MessageBox.Show**(**"សូមជ្រើសរើសអាស័យដ្ឋាន"**,** "Warning"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Warning**)**

cbAddress.Focus**()**

Return False

End If

If txtPhone.Text.Length **=** **0** Then

Dim result **=** MessageBox.Show**(**"តើអ្នកសិស្សមិនមានលេខទូរស័ព្ទមែនទេ"**,** "Warning"**,** MessageBoxButtons.YesNo**,** MessageBoxIcon.Warning**)**

If result **=** DialogResult.No Then

txtPhone.Focus**()**

Return False

End If

ElseIf **(**txtPhone.Text.Length **<** **9** Or txtPhone.Text.Length **>** **10)** And txtPhone.Text.Length **<>** **0** Then

MessageBox.Show**(**"សូមបញ្ចូលលេខទូរស័ព្ទដែលត្រឹមត្រូវ"**,** "Warning"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Warning**)**

txtPhone.Focus**()**

Return False

End If

If txtPay.Text.Length **<=** **0** Or Not IsNumeric**(**txtPay.Text**)** Then

MessageBox.Show**(**"សូមបញ្ចូលចំនួនទឹកប្រាក់ដែលសិស្សបង់"**,** "Warning"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Warning**)**

txtPay.Focus**()**

Return False

End If

Return True

End Function

Function CheckValidation**()** As Boolean

'Check if the student has already registered for the Course

Dim studentID As Integer **=** register.student.id

Dim courseID As Integer **=** register.course.ID

Dim query As String **=** "SELECT COUNT(\*) FROM tblRegister WHERE StudentID = @StudentID AND CourseID = @CourseID"

Dim cmd As New OleDbCommand**(**query**,** register.GetConnection**())**

cmd.Parameters.AddWithValue**(**"@StudentID"**,** studentID**)**

cmd.Parameters.AddWithValue**(**"@CourseID"**,** courseID**)**

register.OpenConnection**()**

Dim count As Integer **=** Convert.ToInt32**(**cmd.ExecuteScalar**())**

register.CloseConnection**()**

If count **>** **0** Then

MessageBox.Show**(**"សូមអភ័យទោសសិស្សឈ្មោះ " **&** register.student.khName **&** " ចានចុះឈ្មោះវគ្គសិក្សានេះរូចហើយ"**,** "Warning"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Warning**)**

Return False

End If

'Check if the Student has already Other at this Schedule

Dim scheduleQuery As String **=** "SELECT Count(\*)

FROM tblCourse INNER JOIN tblRegister ON tblCourse.ID **=** tblRegister.CourseID

WHERE **(((**tblRegister.StudentID**)=**@StudentID**)** AND **((**tblCourse.StatusID**)=**@ScheduleID**));**"

cmd **=** New OleDbCommand**(**scheduleQuery**,** register.GetConnection**())**

cmd.Parameters.AddWithValue**(**"@StudentID"**,** studentID**)**

cmd.Parameters.AddWithValue**(**"@ScheduleID"**,** register.course.scheduleID**)**

register.OpenConnection**()**

count **=** Convert.ToInt32**(**cmd.ExecuteScalar**())**

If count **>** **0** Then

MessageBox.Show**(**"សូមអភ័យទោសសិស្សឈ្មោះ " **&** register.student.khName **&** " ចានចុះឈ្មោះវេនសិក្សានេះរូចហើយ"**,** "Warning"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Warning**)**

Return False

End If

Return True

End Function

'Save Image and reture the path

Function SaveImageAndReturnPath**()** As String

If Path.GetFileName**(**picStudent.ImageLocation**)** **=** "default.png" Then

Return picStudent.ImageLocation

End If

Dim source As String **=** picStudent.ImageLocation

Dim imagesDir As String **=** Path.Combine**(**Application.StartupPath**,** "Images"**)**

Dim destination As String **=** Path.Combine**(**imagesDir**,** Path.GetFileName**(**source**))**

Try

If Not Directory.Exists**(**imagesDir**)** Then

Directory.CreateDirectory**(**imagesDir**)**

End If

FileCopy**(**source**,** destination**)**

Return destination

Catch ex As Exception

MessageBox.Show**(**"Failed to copy image: " **&** ex.Message**)**

Return ""

End Try

End Function

Sub GetCbSubject**()**

cbCourse.DataSource **=** New BindingSource**(**register.GetSubjectList**(),** Nothing**)**

cbCourse.DisplayMember **=** "Key"

cbCourse.ValueMember **=** "Value"

cbCourse.SelectedIndex **=** cbCourse.Items.Count **-** **1** ' Set to the last item

End Sub

Sub GetCbAddress**()**

Dim addressData **=** register.student.GetAddressData**()**

addressData.Add**(**"ជ្រើសរើសខេត្ត"**)**

cbAddress.DataSource **=** addressData

cbAddress.SelectedIndex **=** cbAddress.Items.Count **-** **1**

End Sub

Private Sub cbCourse\_SelectedIndexChanged**(**sender As Object**,** e As EventArgs**)** Handles cbCourse.SelectedIndexChanged

If Integer.TryParse**(**cbCourse.SelectedValue.ToString**(),** Nothing**)** **=** False Then

Return

End If

If Integer.Parse**(**cbCourse.SelectedValue**)** **=** **-1** Then

cbTime.Enabled **=** False

Return

End If

Dim SubjectID As Integer **=** Convert.ToInt32**(**cbCourse.SelectedValue**)**

cbTime.DataSource **=** New BindingSource**(**register.GetTimeList**(**SubjectID**),** Nothing**)**

register.course.subject.GetSubjectByID**(**SubjectID**)**

txtPrice.Text **=** register.course.subject.basePrice.ToString**(**"F2"**)**

cbTime.DisplayMember **=** "Key"

cbTime.ValueMember **=** "Value"

cbTime.SelectedIndex **=** cbTime.Items.Count **-** **1**

cbTime.Enabled **=** True

End Sub

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

'Step 1 : Check Field

If Not CheckField**()** Then

Return

End If

'if don't Choose Student From List Thus Create a new student

If register.student.id **=** String.Empty Then

register.student.AddStudent**(**txtKhName.Text.Trim**(),** txtEngName.Text.Trim**(),** cbGender.Text**,** dtpDob.Text**,** cbAddress.Text.Trim**(),** txtPhone.Text.Trim**(),** SaveImageAndReturnPath**())**

End If

'Assign Course Data to Register

register.course.GetCourseByID**(**cbTime.SelectedValue.ToString**())**

'Check Student Duplicate Course or Schedule

If Not CheckValidation**()** Then

Return

End If

Dim Price **=** Convert.ToDecimal**(**txtPrice.Text**)**

Dim Dis **=** Convert.ToInt16**(**txtDis.Text**)**

register.discount **=** Price **\*** Dis **/** **100.0**

Dim amount As Decimal **=** Decimal.Parse**(**txtAmount.Text**)**

Dim unpaid As Decimal **=** amount **-** Convert.ToDecimal**(**txtPay.Text**)**

'Step 2 : Create Register

register.RegisterStudent**()**

register.payment.NewPayment**(**register.registerID**,** amount**,** unpaid**)** 'Create Payment

'Print Invoice

ExportAndShow**()**

'Step 4 Display Data

Display**()**

register **=** New Register**()**

btnClear.PerformClick**()**

End Sub

Private Sub cbTime\_SelectedIndexChanged**(**sender As Object**,** e As EventArgs**)** Handles cbTime.SelectedIndexChanged

If cbTime.Items.Count **=** **1** Then

Return

End If

If Not IsNumeric**(**cbTime.SelectedValue.ToString**())** Then

Return

End If

If cbTime.SelectedValue **=** **-1** Then

Return

End If

register.course.GetCourseByID**(**cbTime.SelectedValue.ToString**())**

txtRoom.Text **=** register.course.room.room

txtPrice.Text **=** register.course.subject.basePrice.ToString**(**"F2"**)**

txtAmount.Text **=** register.course.subject.basePrice.ToString**(**"F2"**)**

txtDis.Text **=** "0"

txtPay.Text **=** register.course.subject.basePrice.ToString**(**"F2"**)**

End Sub

Sub Regonize**()**

For Each col As DataGridViewColumn In DataGridView1.Columns

col.SortMode **=** DataGridViewColumnSortMode.NotSortable

Next

With DataGridView1

**.**ColumnHeadersHeight **=** **40**

**.**Columns**(0).**Width **=** **50** ' ID column width

**.**Columns**(0).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(0).**DefaultCellStyle.Format **=** "000"

**.**Columns**(1).**Width **=** **250** ' Course Name column width

**.**Columns**(2).**Width **=** **200** ' Description column width

**.**Columns**(3).**Width **=** **150** ' Description column width

**.**Columns**(3).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(4).**Width **=** **150**

**.**Columns**(5).**Width **=** **150**

**.**Columns**(6).**Width **=** **150**

**.**Columns**(0).**HeaderText **=** "លេខកូដ"

**.**Columns**(1).**HeaderText **=** "វគ្គសិក្សា"

**.**Columns**(2).**HeaderText **=** "គ្រូបង្រៀន"

**.**Columns**(3).**HeaderText **=** "ថ្ងៃចូលរៀន"

**.**Columns**(4).**HeaderText **=** "វេនសិក្សា"

**.**Columns**(5).**HeaderText **=** "បន្ទប់រៀន"

**.**Columns**(6).**HeaderText **=** "សិស្សសរុប"

**.**Columns**(4).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(5).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(6).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**ClearSelection**()**

End With

End Sub

Private Sub PanelListShow\_Paint**(**sender As Object**,** e As PaintEventArgs**)** Handles PanelListShow.Paint

Display**()**

End Sub

Private Sub dtpDob\_TextChanged**(**sender As Object**,** e As EventArgs**)** Handles dtpDob.TextChanged

Dim input As String **=** dtpDob.Text.Replace**(**"/"**,** ""**)** ' Remove existing slashes

If input.Length **>=** **2** AndAlso input.Length **<** **4** Then

dtpDob.Text **=** input.Insert**(2,** "/"**)** ' Add slash after day

dtpDob.SelectionStart **=** dtpDob.Text.Length ' Move cursor to end

ElseIf input.Length **>=** **4** Then

dtpDob.Text **=** input.Insert**(2,** "/"**).**Insert**(5,** "/"**)** ' Add slash after month

dtpDob.SelectionStart **=** dtpDob.Text.Length ' Move cursor to end

End If

End Sub

Private Sub dtpDob\_Leave**(**sender As Object**,** e As EventArgs**)** Handles dtpDob.Leave

Dim inputDate As DateTime

If DateTime.TryParse**(**dtpDob.Text**,** inputDate**)** Then

dtpDob.Text **=** inputDate.ToString**(**"dd/MM/yyyy"**)**

Else

If dtpDob.Text.Length **=** **0** Then

Return

End If

MessageBox.Show**(**"សូមបញ្ចូលថ្ងៃខែឆ្នាំកំណើតរបស់សិស្ស"**,** "បញ្ចូលទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return

End If

End Sub

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

txtKhName.Clear**()**

txtEngName.Clear**()**

txtDis.Text **=** "0"

txtPay.Clear**()**

txtPhone.Clear**()**

txtAmount.Text **=** "0"

txtPrice.Text **=** "0"

dtpDob.Clear**()**

txtRoom.Text **=** ""

cbAddress.SelectedIndex **=** cbAddress.Items.Count **-** **1**

cbCourse.SelectedIndex **=** cbCourse.Items.Count **-** **1**

cbGender.SelectedIndex **=** cbGender.Items.Count **-** **1**

cbTime.SelectedIndex **=** cbTime.Items.Count **-** **1**

cbTime.Enabled **=** False

picStudent.ImageLocation **=** Application.StartupPath **&** "\Images\default.png"

register **=** New Register**()**

End Sub

Private Sub txtDis\_TextChanged**(**sender As Object**,** e As EventArgs**)** Handles txtDis.TextChanged

If cbCourse.SelectedIndex **=** cbCourse.Items.Count **-** **1** Then

Return

End If

Dim dis As Decimal

If cbCourse.Text **=** String.Empty Then

txtDis.Text **=** **0**

Return

End If

If Not **(**Decimal.TryParse**(**txtDis.Text**,** dis**))** Or dis **<** **0** Or dis **>** **100** Then

MessageBox.Show**(**"សូមបញ្ចូលភាគរយបញ្ចុះតម្លៃអោយបានត្រឹមត្រូវ!!!"**,** "បញ្ចូលទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Warning**)**

txtDis.Focus**()**

txtDis.SelectAll**()**

Return

End If

Dim amount As Decimal

Dim price As Decimal **=** Decimal.Parse**(**txtPrice.Text**)**

amount **=** price **-** price **\*** **(**dis **/** **100.0)** ' Ensures decimal division

txtAmount.Text **=** amount.ToString**(**"F2"**)** ' Formats output as 2 decimal places

amount.ToString**(**"F2"**)**

End Sub

Private Sub btnChooseStudent\_Click\_1**(**sender As Object**,** e As EventArgs**)** Handles btnChooseStudent.Click

Dim student As New StudentList**()**

If student.ShowDialog**()** **=** **2** Then

Return

End If

register.student **=** student.student

txtKhName.Text **=** register.student.khName

txtEngName.Text **=** register.student.engName

txtPhone.Text **=** register.student.phone

cbGender.SelectedIndex **=** cbGender.FindStringExact**(**register.student.gender**)**

dtpDob.Text **=** register.student.DateOfBirth.ToString**(**"dd/MM/yyyy"**)**

cbAddress.SelectedIndex **=** cbAddress.FindStringExact**(**register.student.address**)**

picStudent.ImageLocation **=** register.student.picture

End Sub

Private Sub ExportAndShow**()**

Dim rdReport As New ReportDocument

rdReport.Load**(**"Report\Invoice.rpt"**)**

Dim num As Integer **=** Convert.ToInt16**(**register.payment.paymentID**)**

rdReport.SetParameterValue**(**"PaymentID"**,** num.ToString**(**"0000"**))**

rdReport.SetParameterValue**(**"khName"**,** register.student.khName**)**

rdReport.SetParameterValue**(2,** register.student.engName**)**

rdReport.SetParameterValue**(3,** register.student.address**)**

rdReport.SetParameterValue**(4,** register.student.phone**)**

rdReport.SetParameterValue**(7,** register.registerID**)**

rdReport.SetParameterValue**(9,** register.course.subject.Subject**)**

rdReport.SetParameterValue**(8,** register.course.subject.basePrice**)**

rdReport.SetParameterValue**(5,** register.payment.amount**)**

rdReport.SetParameterValue**(6,** register.payment.unpaid**)**

rdReport.SetParameterValue**(10,** register.course.startDate**)**

rdReport.SetParameterValue**(11,** register.course.GetSchedule**())**

rdReport.SetParameterValue**(12,** register.course.room.room**)**

rdReport.PrintOptions.PaperSize **=** PaperSize.PaperA4

Dim exportPath As String **=** Application.StartupPath **&** "\Export\Invoices"

If Not Directory.Exists**(**exportPath**)** Then

Directory.CreateDirectory**(**exportPath**)**

End If

exportPath **=** **(**exportPath **+** "\"**)** **&** register.student.khName **&** "\_" **&** Date.Now**().**ToString**(**"dd-MMM-yyyy"**)** **&** ".pdf"

rdReport.ExportToDisk**(**ExportFormatType.PortableDocFormat**,** exportPath**)**

Process.Start**(**exportPath**)**

End Sub

Sub SearchData**()** Handles txtSearch.TextChanged

If startup Then

Return

End If

Dim query As String **=** "SELECT tblCourse.ID, tblSubject.Subject, tblTeacher.EngName, tblCourse.StartDate, tblSchedule.Schedule, tblRoom.Room, (Select COUNT(\*) FROM tblRegister WHERE tblCourse.ID = tblRegister.CourseID) As TotalStudent

From tblTeacher INNER Join **(**tblSchedule INNER Join **(**tblRoom INNER Join **(**tblSubject INNER Join **(**tblCourseStatus INNER Join tblCourse On tblCourseStatus.ID **=** tblCourse.StatusID**)** ON tblSubject.ID **=** tblCourse.SubjectID**)** ON tblRoom.ID **=** tblCourse.RoomID**)** ON tblSchedule.ID **=** tblCourse.ScheduleID**)** ON tblTeacher.ID **=** tblCourse.TeacherID

Where tblCourse.StatusID **<=** **2** AND tblSubject.Subject LIKE @subject

Order By tblCourse.ID**;**"

Dim subject As String **=** If**(**txtSearch.Text **=** ""**,** "%"**,** txtSearch.Text **&** "%"**)**

Dim cmd As New OleDbCommand**(**query**,** register.GetConnection**())**

cmd.Parameters.AddWithValue**(**"@subject"**,** subject**)**

DataGridView1.DataSource **=** register.ExecuteQuery**(**cmd**)**

Regonize**()**

End Sub

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

startup **=** False

End Sub

Private Sub DataGridView1\_CellDoubleClick**(**sender As Object**,** e As DataGridViewCellEventArgs**)** Handles DataGridView1.CellDoubleClick

Dim courseID As String **=** DataGridView1.SelectedRows**(0).**Cells**(0).**Value

register.course.GetCourseByID**(**courseID**)**

cbCourse.SelectedIndex **=** cbCourse.FindStringExact**(**register.course.subject.Subject**)**

cbTime.SelectedIndex **=** cbTime.FindStringExact**(**register.course.GetSchedule**)**

End Sub

Private Sub txtDis\_Leave**(**sender As Object**,** e As EventArgs**)** Handles txtDis.Leave

If txtDis.Text.Length **=** **0** Then

txtDis.Text **=** "0"

End If

End Sub

Private Sub SearchData**(**sender As Object**,** e As EventArgs**)** Handles txtSearch.TextChanged

End Sub

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

txtSearch.Clear**()**

End Sub

End Class

**5.TeacherForm**

Imports System.Data.OleDb

Imports System.IO

Public Class TeachersForm

Dim teacher As Teacher **=** New Teacher**()**

Dim startup As Boolean **=** True

Public Sub New**()**

' This call is required by the designer.

InitializeComponent**()**

' Add any initialization after the InitializeComponent() call.

End Sub

'Display all teachers in DataGridView

Sub Display**()**

DataGridView1.DataSource **=** teacher.GetTeacherData**()**

Regonize**()**

End Sub

'Check User Input

Private Function CheckField**()** As Boolean

Dim khName As String **=** txtKhName.Text

Dim engName As String **=** txtEngName.Text.Trim**()**

Dim Gender As String **=** cbGender.Text

Dim DoB As Date **=** Convert.ToDateTime**(**dtpDob.Text.Trim**())**

Dim Address As String **=** cbAddress.Text.Trim**()**

Dim Phone As String **=** txtPhone.Text.Trim**()**

Dim Email As String **=** txtEmail.Text.Trim**()**

' Validate inputs

If String.IsNullOrEmpty**(**khName**)** Then

MessageBox.Show**(**"សូមបញ្ចូល គោត្តនាម នាម"**,** "Validation Error"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

ElseIf String.IsNullOrEmpty**(**engName**)** Then

MessageBox.Show**(**"សូមបញ្ចូល ឈ្មោះឡាតាំង"**,** "Validation Error"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

ElseIf String.IsNullOrEmpty**(**Gender**)** Then

MessageBox.Show**(**"សូមជ្រើសភេទ"**,** "Validation Error"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

ElseIf String.IsNullOrEmpty**(**DoB.ToString**())** Then

MessageBox.Show**(**"សូមបញ្ចូលថ្ងៃខែឆ្មាំកំណើត."**,** "Validation Error"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

ElseIf String.IsNullOrEmpty**(**Address**)** Then

MessageBox.Show**(**"សូមបញ្ជូលអាស័យដ្ឋាន"**,** "Validation Error"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

ElseIf String.IsNullOrEmpty**(**Phone**)** Or IsNumeric**(**Phone**)** **=** False Then

MessageBox.Show**(**"សូមបញ្ចូលលេខទូរស័ព្ទ"**,** "Validation Error"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

ElseIf String.IsNullOrEmpty**(**Email**)** Or Not Email.Contains**(**"@"**)** Then

MessageBox.Show**(**"សូមបញ្ចូល Email"**,** "Validation Error"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

End If

Return True

End Function

Private Sub DataGridView1\_Click**(**sender As Object**,** e As EventArgs**)** Handles DataGridView1.CellClick

If btnEdit.Visible **=** False Then

Return

End If

Dim teacterID As String **=** DataGridView1.CurrentRow.Cells**(0).**Value.ToString**()**

teacher.GetTeacherByID**(**teacterID**)**

txtKhName.Text **=** teacher.KhName

txtEngName.Text **=** teacher.EngName

cbAddress.SelectedIndex **=** cbAddress.FindStringExact**(**teacher.Address**)**

dtpDob.Text **=** teacher.DoB.ToString**(**"dd/MM/yyyy"**)**

txtPhone.Text **=** teacher.Phone

cbGender.Text **=** teacher.Gender

txtEmail.Text **=** teacher.Email

If Not String.IsNullOrEmpty**(**teacher.Picture**)** Then

picTeacher.ImageLocation **=** teacher.Picture

Else

picTeacher.ImageLocation **=** Application.StartupPath **&** "\Images\default.png"

End If

End Sub

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

OpenPic.Filter **=** "Image Files|\*.jpg;\*.jpeg;\*.png;\*.bmp"

OpenPic.Title **=** "Select a Picture"

OpenPic.InitialDirectory **=** Environment.GetFolderPath**(**Environment.SpecialFolder.MyPictures**)**

If OpenPic.ShowDialog**()** **=** DialogResult.OK Then

Dim filePath As String **=** OpenPic.FileName

picTeacher.ImageLocation **=** filePath

End If

End Sub

Sub Regonize**()**

If DataGridView1.Columns.Count **=** **7** Then

With DataGridView1

**.**Columns**(0).**HeaderText **=** "លេខកូដ"

**.**Columns**(0).**Width **=** **100**

**.**Columns**(0).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(0).**DefaultCellStyle.Format **=** "000"

**.**Columns**(1).**Width **=** **250**

**.**Columns**(1).**HeaderText **=** "គោត្តនាម នាម"

**.**Columns**(2).**Width **=** **250**

**.**Columns**(2).**HeaderText **=** "ឈ្មោះឡាតាំង"

**.**Columns**(3).**Width **=** **200**

**.**Columns**(3).**HeaderText **=** "ថ្ងៃខែឆ្នាំកំណើត"

**.**Columns**(3).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(4).**Width **=** **200**

**.**Columns**(4).**HeaderText **=** "អាស័យដ្ឋាន"

**.**Columns**(5).**Width **=** **250**

**.**Columns**(5).**HeaderText **=** "Email"

**.**Columns**(6).**Width **=** **200**

**.**Columns**(6).**HeaderText **=** "លេខទូរស័ព្ទ"

**.**Columns**(6).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleLeft

End With

For i As Integer **=** **0** To DataGridView1.Rows.Count **-** **1**

If i Mod **2** **=** **1** Then

DataGridView1.Rows**(**i**).**DefaultCellStyle.BackColor **=** Color.FromArgb**(254,** **254,** **254)** ' Alternate row color

Else

DataGridView1.Rows**(**i**).**DefaultCellStyle.BackColor **=** Color.FromArgb**(245,** **250,** **253)**

End If

For Each col As DataGridViewColumn In DataGridView1.Columns

col.SortMode **=** DataGridViewColumnSortMode.NotSortable

Next

Next i

End If

DataGridView1.ClearSelection**()**

End Sub

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

Panel2.Visible **=** True

picTeacher.ImageLocation **=** Application.StartupPath **&** "\Images\default.png"

btnAddNew.Visible **=** True

btnEdit.Visible **=** False

End Sub

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

If Not CheckField**()** Then

Return

End If

Dim count **=** **0**

If txtKhName.Text **<>** teacher.KhName Then

count **+=** **1**

End If

If txtEngName.Text **<>** teacher.EngName Then

count **+=** **1**

End If

If Convert.ToDateTime**(**dtpDob.Text**)** **<>** teacher.DoB Then

count **+=** **1**

End If

If cbAddress.Text **<>** teacher.Address Then

count **+=** **1**

End If

If txtPhone.Text **<>** teacher.Phone Then

count **+=** **1**

End If

If cbGender.Text **<>** teacher.Gender Then

count **+=** **1**

End If

If txtEmail.Text **<>** teacher.Email Then

count **+=** **1**

End If

If count **=** **0** Then

MessageBox.Show**(**"មិនមានការផ្លាស់ប្តូរទេ។"**,** "No Changes"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Information**)**

Return

End If

teacher.KhName **=** txtKhName.Text

teacher.EngName **=** txtEngName.Text.Trim**()**

teacher.DoB **=** Convert.ToDateTime**(**dtpDob.Text**)**

teacher.Address **=** cbAddress.Text.Trim**()**

teacher.Phone **=** txtPhone.Text.Trim**()**

teacher.Gender **=** cbGender.Text

teacher.Email **=** txtEmail.Text.Trim**()**

teacher.Picture **=** picTeacher.ImageLocation

teacher.UpdateTeacher**()**

Display**()**

End Sub

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

If Not CheckField**()** Then

Return

Else

teacher.KhName **=** txtKhName.Text

teacher.EngName **=** txtEngName.Text.Trim**()**

teacher.DoB **=** Convert.ToDateTime**(**dtpDob.Text**)**

teacher.Address **=** cbAddress.Text

teacher.Phone **=** txtPhone.Text.Trim**()**

teacher.Gender **=** cbGender.Text

teacher.Email **=** txtEmail.Text.Trim**()**

teacher.Picture **=** SaveImageAndReturnPath**()**

teacher.AddTeacher**()**

End If

Display**()**

End Sub

Function SaveImageAndReturnPath**()** As String

If Path.GetFileName**(**picTeacher.ImageLocation**)** **=** "default.png" Then

Return picTeacher.ImageLocation

End If

Dim source As String **=** picTeacher.ImageLocation

Dim imagesDir As String **=** Path.Combine**(**Application.StartupPath**,** "Images"**)**

Dim destination As String **=** Path.Combine**(**imagesDir**,** Path.GetFileName**(**source**))**

Try

If Not Directory.Exists**(**imagesDir**)** Then

Directory.CreateDirectory**(**imagesDir**)**

End If

FileCopy**(**source**,** destination**)**

Return destination

Catch ex As Exception

MessageBox.Show**(**"Failed to copy image: " **&** ex.Message**)**

Return ""

End Try

End Function

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

Panel2.Visible **=** False

txtKhName.Text **=** ""

txtEngName.Text **=** ""

cbAddress.SelectedIndex **=** cbAddress.Items.Count **-** **1**

txtPhone.Text **=** ""

txtEmail.Text **=** ""

cbGender.SelectedText **=** cbGender.Items.Count **-** **1**

dtpDob.Text **=** DateTime.Now**().**ToString**(**"dd/MM/yyyy"**)**

picTeacher.ImageLocation **=** Application.StartupPath **&** "\Images\default.png"

btnAddNew.Visible **=** False

End Sub

Private Sub DataGridView1\_MouseClick**(**sender As Object**,** e As MouseEventArgs**)** Handles DataGridView1.MouseClick

Dim menu As New ContextMenuStrip**()**

menu.Font **=** New Font**(**"Khmer OS System"**,** **11)**

menu.Items.Add**(**"លម្អិត"**,** Nothing**,** AddressOf ShowDetails**)**

menu.Items.Add**(**"កែប្រែ"**,** Nothing**,** AddressOf EditClass**)**

menu.Items.Add**(**"លុប"**,** Nothing**,** AddressOf DeleteCourse**)**

menu.Items**(0).**BackColor **=** Color.FromArgb**(245,** **250,** **253)**

If e.Button **=** MouseButtons.Right Then

Dim hit As DataGridView.HitTestInfo **=** DataGridView1.HitTest**(**e.X**,** e.Y**)**

If hit.RowIndex **>=** **0** Then

Dim teacherID As String **=** DataGridView1.Rows**(**hit.RowIndex**).**Cells**(0).**Value.ToString**()**

teacher.GetTeacherByID**(**teacherID**)**

menu.Show**(**DataGridView1**,** e.Location**)**

End If

End If

End Sub

Private Sub DeleteCourse**()**

If DialogResult.Yes **=** MessageBox.Show**(**"តើអ្នកពិតជាចង់លុប គ្រូបង្រៀនឈ្មោះ " **&** teacher.KhName **&** " នេះ មែនទេ?"**,** "Confirm Delete"**,** MessageBoxButtons.YesNo**,** MessageBoxIcon.Question**)** Then

teacher.DeleteTeacher**(**teacher.TeacherID**)**

Display**()**

End If

End Sub

Private Sub ShowDetails**()**

Dim detailForm As New TeacherDetail**(**teacher**)**

detailForm.ShowDialog**()**

detailForm.Dispose**()**

Display**()**

End Sub

Private Sub EditClass**()**

Panel2.Visible **=** True

txtKhName.Text **=** teacher.KhName

txtEngName.Text **=** teacher.EngName

cbAddress.SelectedIndex **=** cbAddress.FindStringExact**(**teacher.Address**)**

txtPhone.Text **=** teacher.Phone

dtpDob.Text **=** teacher.DoB.ToString**(**"dd/MM/yyyy"**)**

cbGender.SelectedIndex **=** cbGender.FindStringExact**(**teacher.Gender**)**

txtEmail.Text **=** teacher.Email

picTeacher.ImageLocation **=** teacher.Picture

btnEdit.Visible **=** True

btnAddNew.Visible **=** False

End Sub

Sub SearchData**()** Handles cbSearchAddress.SelectedIndexChanged**,** txtSearch.TextChanged

If startup Then

Return

End If

Dim query As String **=** "SELECT tblTeacher.ID, tblTeacher.KhName AS KhmerName, tblTeacher.EngName AS EnglishName, tblTeacher.DOB AS DateOfBirth,

tblTeacher.Address AS PlaceOfBirth**,** tblTeacher.Email**,** tblTeacher.Phone FROM tblTeacher

WHERE Address LIKE @address AND **(**ID Like @id OR **(**KhName Like @name OR engName Like @name**));**"

Dim cmd As OleDbCommand **=** New OleDbCommand**(**query**,** teacher.GetConnection**())**

Dim name As String **=** If**(**txtSearch.Text.Trim**()** **=** ""**,** "%"**,** txtSearch.Text.Trim**()** **&** "%"**)**

Dim id As String **=** If**(**IsNumeric**(**txtSearch.Text.Trim**()),** txtSearch.Text.Trim**()** **&** "%"**,** "0"**)**

Dim address As String **=** If**(**cbSearchAddress.SelectedIndex **=** cbSearchAddress.Items.Count **-** **1,** "%"**,** cbSearchAddress.SelectedItem.ToString**())**

address **=** "%" **&** address **&** "%"

cmd.Parameters.AddWithValue**(**"@address"**,** address**)**

cmd.Parameters.AddWithValue**(**"@id"**,** id**)**

cmd.Parameters.AddWithValue**(**"@name"**,** name**)**

Dim dt As DataTable **=** teacher.ExecuteQuery**(**cmd**)**

DataGridView1.DataSource **=** dt

Regonize**()**

End Sub

Sub GetCbAddress**()**

Dim SearchAddressData As ArrayList **=** teacher.GetAddressData**()**

SearchAddressData.Add**(**"គ្រប់ខេត្តទាំងអស់"**)**

cbSearchAddress.DataSource **=** SearchAddressData

cbSearchAddress.SelectedIndex **=** cbSearchAddress.Items.Count **-** **1**

Dim addressData **=** teacher.GetAddressData**()**

addressData.Add**(**"ជ្រើសរើសខេត្ត"**)**

cbAddress.DataSource **=** addressData

cbAddress.SelectedIndex **=** cbAddress.Items.Count **-** **1**

End Sub

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

cbAddress.SelectedIndex **=** cbAddress.Items.Count **-** **1**

txtSearch.Text **=** ""

End Sub

Private Sub btnAdd\_Click\_1**(**sender As Object**,** e As EventArgs**)** Handles btnAdd.Click

Panel2.Visible **=** True

End Sub

Private Sub Panel9\_Paint\_1**(**sender As Object**,** e As PaintEventArgs**)** Handles Panel9.Paint

startup **=** False

End Sub

Private Sub Guna2Panel1\_Paint**(**sender As Object**,** e As PaintEventArgs**)** Handles Guna2Panel1.Paint

Display**()**

GetCbAddress**()**

End Sub

End Class

**6.StudentForm**

Imports System.Data.OleDb

Imports System.Windows.Forms.VisualStyles.VisualStyleElement

Public Class StudentForm

Dim student As Student **=** New Student**()**

Dim startup As Boolean **=** True ' To prevent initial search on form load

Public Sub New**()**

'Constructor for StudentForm class

InitializeComponent**()**

picStudent.ImageLocation **=** Application.StartupPath **&** "\Images\default.png"

GetCbAddress**()**

End Sub

Private Sub Display**()**

DataGridView1.DataSource **=** student.GetStudentData**()**

Regonize**()**

End Sub

'Check User Input

Private Function CheckField**()** As Boolean

Dim khName As String **=** txtKhName.Text.Trim**()**

Dim engName As String **=** txtEngName.Text.Trim**()**

Dim address As String **=** cbAddress.Text.Trim**()**

Dim phone As String **=** txtPhone.Text.Trim**()**

If String.IsNullOrEmpty**(**khName**)** Then

MessageBox.Show**(**"សូ​មបញ្ជូលឈ្មោះសិស្ស"**,** "Input Error"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

End If

If String.IsNullOrEmpty**(**engName**)** Then

MessageBox.Show**(**"សូ​មបញ្ជូលឈ្មោះឡាតាំង"**,** "Input Error"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

End If

If String.IsNullOrEmpty**(**address**)** Then

MessageBox.Show**(**"សូមបញ្ជូលអាសស័យដ្ឋាន"**,** "Input Error"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

End If

If String.IsNullOrEmpty**(**phone**)** Then

MessageBox.Show**(**"សូមបញ្ជូលលេខទូរស័ព្ទ"**,** "Input Error"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

End If

Dim result As Boolean **=** True

If Not IsNumeric**(**phone**)** Or phone.Length **<=** **8** Or phone.Length **>=** **11** Then

MessageBox.Show**(**"លេខទូរស័ព្ទត្រូវតែជាលេខ"**,** "Input Error"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

result **=** False

End If

Dim count As Integer **=** **0**

If student.khName **<>** khName Then

count **+=** **1**

End If

If student.engName **<>** engName Then

count **+=** **1**

End If

If student.address **<>** address Then

count **+=** **1**

End If

If student.phone **<>** phone Then

count **+=** **1**

End If

If student.gender **<>** cbGender.Text Then

count **+=** **1**

End If

If student.DateOfBirth **<>** Convert.ToDateTime**(**dtpDob.Text**)** Then

count **+=** **1**

End If

If count **=** **0** Then

MessageBox.Show**(**"មិនមានការផ្លាស់ប្តូរទេ"**,** "កែប្រែព័ត៌មានសិស្ស"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Information**)**

Return False

End If

Return result

End Function

Sub Regonize**()**

If DataGridView1.Columns.Count **=** **7** Then

With DataGridView1

**.**Columns**(0).**Width **=** **75**

**.**Columns**(0).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(0).**DefaultCellStyle.Format **=** "000"

**.**Columns**(1).**Width **=** **250**

**.**Columns**(1).**HeaderText **=** "គោត្តនាម នាម"

**.**Columns**(2).**Width **=** **200**

**.**Columns**(2).**HeaderText **=** "ឈ្មោះឡាតាំង"

**.**Columns**(3).**Width **=** **75**

**.**Columns**(3).**HeaderText **=** "ភេទ"

**.**Columns**(3).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(4).**Width **=** **200**

**.**Columns**(4).**HeaderText **=** "ថ្ងៃខែឆ្នាំកំណើត"

**.**Columns**(4).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(5).**Width **=** **150**

**.**Columns**(5).**HeaderText **=** "អាស័យដ្ឋាន"

**.**Columns**(5).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(6).**Width **=** **200**

**.**Columns**(6).**HeaderText **=** "លេខទូរស័ព្ទ"

**.**Columns**(6).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

End With

For i As Integer **=** **0** To DataGridView1.Rows.Count **-** **1**

If i Mod **2** **=** **1** Then

DataGridView1.Rows**(**i**).**DefaultCellStyle.BackColor **=** Color.FromArgb**(254,** **254,** **254)** ' Alternate row color

Else

DataGridView1.Rows**(**i**).**DefaultCellStyle.BackColor **=** Color.FromArgb**(245,** **250,** **253)**

End If

Next i

For Each col As DataGridViewColumn In DataGridView1.Columns

col.SortMode **=** DataGridViewColumnSortMode.NotSortable

Next

End If

DataGridView1.ClearSelection**()**

End Sub

Private Sub DataGridView1\_MouseClick**(**sender As Object**,** e As MouseEventArgs**)** Handles DataGridView1.MouseClick

Dim menu As New ContextMenuStrip**()**

menu.Font **=** New Font**(**"Khmer OS System"**,** **11)**

menu.Items.Add**(**"លម្អិត"**,** Nothing**,** AddressOf ShowDetails**)**

menu.Items.Add**(**"កែប្រែ"**,** Nothing**,** AddressOf EditStudent**)**

menu.Items.Add**(**"លុប"**,** Nothing**,** AddressOf DeleteStudent**)**

menu.Items**(0).**BackColor **=** Color.FromArgb**(245,** **250,** **253)**

If e.Button **=** MouseButtons.Right Then

Dim hit As DataGridView.HitTestInfo **=** DataGridView1.HitTest**(**e.X**,** e.Y**)**

If hit.RowIndex **>=** **0** Then

Dim studentID As String **=** DataGridView1.Rows**(**hit.RowIndex**).**Cells**(0).**Value.ToString**()**

student.GetStudentByID**(**Convert.ToInt32**(**studentID**))**

menu.Show**(**DataGridView1**,** e.Location**)**

End If

End If

End Sub

Private Sub DeleteStudent**()**

If DialogResult.Yes **=** MessageBox.Show**(**"តើអ្នកពិតជាចង់លុប សិស្សឈ្មោះ" **&** student.khName **&** " នេះ មែនទេ?"**,** "Confirm Delete"**,** MessageBoxButtons.YesNo**,** MessageBoxIcon.Question**)** Then

student.DeleteStudent**()**

Display**()**

End If

End Sub

Private Sub ShowDetails**()**

Dim detailForm As New StudentDetail**(**student**)**

detailForm.ShowDialog**()**

detailForm.Dispose**()**

Display**()**

End Sub

Private Sub EditStudent**()**

Panel2.Visible **=** True

txtKhName.Text **=** student.khName

txtEngName.Text **=** student.engName

cbAddress.SelectedIndex **=** cbAddress.FindStringExact**(**student.address**)**

txtPhone.Text **=** student.phone

dtpDob.Text **=** student.DateOfBirth.ToString**(**"dd/MM/yyyy"**)**

cbGender.SelectedIndex **=** cbGender.FindStringExact**(**student.gender**)**

picStudent.ImageLocation **=** student.picture

End Sub

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

Panel2.Visible **=** False

txtKhName.Text **=** ""

txtEngName.Text **=** ""

cbAddress.Text **=** ""

txtPhone.Text **=** ""

dtpDob.Text **=** DateTime.Now**().**ToString**(**"dd/MM/yyyy"**)**

End Sub

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

If CheckField**()** Then

student.UpdateStudent**(**student.id**,** txtKhName.Text.Trim**(),** txtEngName.Text.Trim**(),** cbGender.SelectedItem.ToString**(),** dtpDob.Text**,** cbAddress.Text.Trim**(),** txtPhone.Text.Trim**(),** picStudent.ImageLocation**)**

MessageBox.Show**(**"ព័ត៌មានសិស្សបានកែប្រែដោយជោគជ័យ"**,** "Success"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Information**)**

Display**()**

End If

End Sub

Private Sub dtpDob\_TextChanged**(**sender As Object**,** e As EventArgs**)** Handles dtpDob.TextChanged

Dim input As String **=** dtpDob.Text.Replace**(**"/"**,** ""**)** ' Remove existing slashes

If input.Length **>=** **2** AndAlso input.Length **<** **4** Then

dtpDob.Text **=** input.Insert**(2,** "/"**)** ' Add slash after day

dtpDob.SelectionStart **=** dtpDob.Text.Length ' Move cursor to end

ElseIf input.Length **>=** **4** Then

dtpDob.Text **=** input.Insert**(2,** "/"**).**Insert**(5,** "/"**)** ' Add slash after month

dtpDob.SelectionStart **=** dtpDob.Text.Length ' Move cursor to end

End If

End Sub

Private Sub dtpDob\_Leave**(**sender As Object**,** e As EventArgs**)** Handles dtpDob.Leave

Dim inputDate As DateTime

If DateTime.TryParse**(**dtpDob.Text**,** inputDate**)** Then

dtpDob.Text **=** inputDate.ToString**(**"dd/MM/yyyy"**)**

Else

If dtpDob.Text.Length **=** **0** Then

Return

End If

MessageBox.Show**(**"សូមបញ្ចូលថ្ងៃខែឆ្នាំកំណើតរបស់សិស្ស"**,** "បញ្ចូលទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return

End If

End Sub

Sub GetCbAddress**()**

Dim SearchAddressData As ArrayList **=** student.GetAddressData**()**

SearchAddressData.Add**(**"គ្រប់ខេត្តទាំងអស់"**)**

cbSearchAddress.DataSource **=** SearchAddressData

cbSearchAddress.SelectedIndex **=** cbSearchAddress.Items.Count **-** **1**

Dim addressData **=** student.GetAddressData**()**

addressData.Add**(**"ជ្រើសរើសខេត្ត"**)**

cbAddress.DataSource **=** addressData

cbAddress.SelectedIndex **=** cbAddress.Items.Count **-** **1**

End Sub

Private Sub Panel1\_Paint**(**sender As Object**,** e As PaintEventArgs**)** Handles Panel1.Paint

'GetCbAddress()

'startup = False

End Sub

Sub SearchData**()** Handles cbSearchAddress.SelectedIndexChanged**,** txtSearch.TextChanged

If startup Then

Return

End If

Dim query As String **=** "SELECT tblStudent.ID, tblStudent.KhName, tblStudent.EngName, tblStudent.Gender,

tblStudent.DateOfBirth**,** tblStudent.Address**,** tblStudent.Phone FROM tblStudent

WHERE Address LIKE @address AND **(**ID Like @id AND **(**KhName Like @name OR EngName Like @name**));**"

Dim cmd As OleDbCommand **=** New OleDbCommand**(**query**,** student.GetConnection**())**

Dim id As String **=** If**(**IsNumeric**(**txtSearch.Text.Trim**()),** txtSearch.Text.Trim**()** **&** "%"**,** "%"**)**

Dim name As String **=** If**(**txtSearch.Text.Trim**()** **=** ""**,** "%"**,** If**(**IsNumeric**(**txtSearch.Text.Trim**()),** "%"**,** "%" **&** txtSearch.Text.Trim**()** **&** "%"**))**

Dim address As String **=** If**(**cbSearchAddress.SelectedIndex **=** cbSearchAddress.Items.Count **-** **1,** "%"**,** cbSearchAddress.SelectedItem.ToString**())**

address **=** "%" **&** address **&** "%"

cmd.Parameters.AddWithValue**(**"@address"**,** address**)**

cmd.Parameters.AddWithValue**(**"@id"**,** id**)**

cmd.Parameters.AddWithValue**(**"@name"**,** name**)**

Dim dt As DataTable **=** student.ExecuteQuery**(**cmd**)**

DataGridView1.DataSource **=** dt

Regonize**()**

End Sub

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

txtSearch.Text **=** ""

cbSearchAddress.SelectedIndex **=** cbSearchAddress.Items.Count **-** **1**

End Sub

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

OpenPic.Filter **=** "Image Files|\*.jpg;\*.jpeg;\*.png;\*.bmp"

OpenPic.Title **=** "Select a Picture"

OpenPic.InitialDirectory **=** Environment.GetFolderPath**(**Environment.SpecialFolder.MyPictures**)**

If OpenPic.ShowDialog**()** **=** DialogResult.OK Then

Dim filePath As String **=** OpenPic.FileName

picStudent.ImageLocation **=** filePath

End If

End Sub

Private Sub Guna2Panel3\_Paint**(**sender As Object**,** e As PaintEventArgs**)** Handles Guna2Panel3.Paint

Display**()**

End Sub

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

GetCbAddress**()**

startup **=** False

End Sub

End Class

**7.CourseForm**

Imports System.Data.OleDb

Imports System.Data.SqlTypes

Imports System.Windows

Public Class CourseForm

Dim course As Course **=** New Course**()**

Dim startup As Boolean **=** True

Public Sub New**()**

'This call is required by the designer.

InitializeComponent**()**

'Add any initialization after the InitializeComponent() call.

GetcbStatus**()**

GetcbSearch**()**

End Sub

'Check Validation

Function CheckValidation**()** As Boolean

If Not CheckField**()** Then

Return False

End If

Dim result As Boolean **=** True

Dim query As String **=** "SELECT COUNT(\*) FROM tblCourse WHERE ScheduleID = @ScheduleID AND RoomID = @RoomID AND StatusID <= 2;" 'Check if the room and schedule are already in use

Dim cmd As New OleDbCommand**(**query**,** course.GetConnection**())**

cmd.Parameters.AddWithValue**(**"@ScheduleID"**,** cbSchedule.SelectedValue**)**

cmd.Parameters.AddWithValue**(**"@RoomID"**,** cbRoom.SelectedValue**)**

Dim count As Integer **=** Convert.ToInt32**(**course.ExecuteScalar**(**cmd**))**

If count **>** **0** Then

MessageBox.Show**(**"បន្ទប់ និង វេនសិក្សា ត្រូវបានប្រើប្រាស់រួចហើយ។ សូមជ្រើសរើសវេនសិក្សា ឬ បន្ទប់ផ្សេងទៀត។"**,** "ទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

result **=** False

End If

query **=** "SELECT COUNT(\*) FROM tblCourse WHERE ID = @ID;"

cmd **=** New OleDbCommand**(**query**,** course.GetConnection**())**

cmd.Parameters.AddWithValue**(**"@ID"**,** txtCourseID.Text.Trim**())**

count **=** Convert.ToInt32**(**course.ExecuteScalar**(**cmd**))**

If count **>** **0** Then

MessageBox.Show**(**"លេខកូដវគ្គសិក្សា នេះមានរួចហើយ."**,** "ទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

result **=** False

End If

query **=** "SELECT COUNT(\*) FROM tblCourse WHERE ID = @subjectID AND StatusID <= 2 AND ScheduleID = @ScheduleID ;" 'Check if the subject and teacher are already assigned

cmd **=** New OleDbCommand**(**query**,** course.GetConnection**())**

cmd.Parameters.AddWithValue**(**"@subjectID"**,** cbSubject.SelectedValue**)**

cmd.Parameters.AddWithValue**(**"@ScheduleID"**,** cbSchedule.SelectedValue**)**

count **=** Convert.ToInt32**(**course.ExecuteScalar**(**cmd**))**

If count **>** **0** Then

MessageBox.Show**(**"វគ្គសិក្សា ត្រូវបានប្រើប្រាស់រួចហើយនៅក្នុងវេនសិក្សានេះ ។ សូមជ្រើសរើស វគ្គសិក្សាថ្មី។"**,** "ទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

result **=** False

End If

query **=** "SELECT COUNT(\*) FROM tblCourse WHERE TeacherID = @TeacherID AND StatusID <= 2 AND ScheduleID = @ScheduleID ;" 'Check if the subject and teacher are already assigned

cmd **=** New OleDbCommand**(**query**,** course.GetConnection**())**

cmd.Parameters.AddWithValue**(**"@TeacherID"**,** cbTeacher.SelectedValue**)**

cmd.Parameters.AddWithValue**(**"@ScheduleID"**,** cbSchedule.SelectedValue**)**

count **=** Convert.ToInt32**(**course.ExecuteScalar**(**cmd**))**

If count **>** **0** Then

MessageBox.Show**(**"គ្រូបង្រៀននេះ ត្រូវបានប្រើប្រាស់រួចហើយនៅក្នុងវេនសិក្សានេះ ។ សូមជ្រើសរើស គ្រូបង្រៀនថ្មី ។"**,** "ទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

result **=** False

End If

If dtpStartDate.Value.Date **<=** DateTime.Now**().**Date Then

MessageBox.Show**(**"សូមបញ្ចូលថ្ងៃចូលរៀនអោយបានត្រឹមត្រូវ !!!!"**,** "ទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButton.OK**,** MessageBoxIcon.Warning**)**

End If

If dtpEndDate.Value.Date **<=** dtpStartDate.Value.Date.AddDays**(10)** Then

MessageBox.Show**(**"សូមបញ្ចូលថ្ងៃចូលរៀនអោយបានត្រឹមត្រូវ !!!!"**,** "ទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButton.OK**,** MessageBoxIcon.Warning**)**

End If

Return result

End Function

'Check User Input

Private Function CheckField**()** As Boolean

Dim ClassName As String **=** txtCourseID.Text.Trim**()**

Dim TimeID As Integer **=** Convert.ToInt32**(**cbSchedule.SelectedValue**)**

Dim RoomID As Integer **=** Convert.ToInt32**(**cbRoom.SelectedValue**)**

Dim TeacherID As Integer **=** cbTeacher.SelectedValue

Dim CourseID As Integer **=** cbSubject.SelectedValue

course.startDate **=** dtpStartDate.Value

If String.IsNullOrEmpty**(**ClassName**)** Then

MessageBox.Show**(**"សូមបញ្ចូលលេខកូដវគ្គសិក្សា"**,** "បញ្ចូលទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

End If

If TimeID **<=** **0** Or RoomID **<=** **0** Or TeacherID **<=** **0** Or CourseID **<=** **0** Then

MessageBox.Show**(**"សូមជ្រើសរើវេនសិក្សា បន្ទប់ គ្រូបង្រៀន និង វគ្គសិក្សា"**,** "បញ្ចូលទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

End If

Return True

End Function

'GetData From Class ManageClass

Private Sub Display**()**

InsertData**(**course.GetCourseData**())**

End Sub

Sub GetCbTime**()**

Dim timeList **=** course.GetTimeList**()**

timeList.Add**(**"ជ្រើសរើសវេនសិក្សា"**,** **-1)**

cbSchedule.DataSource **=** New BindingSource**(**timeList**,** Nothing**)**

cbSchedule.DisplayMember **=** "Key"

cbSchedule.ValueMember **=** "Value"

cbSchedule.SelectedIndex **=** cbSchedule.Items.Count **-** **1**

End Sub

Sub GetCbRoom**()**

Dim RoomList **=** course.GetRoomList**()**

RoomList.Add**(**"ជ្រើសរើសបន្ទប់រៀន"**,** **-1)**

cbRoom.DataSource **=** New BindingSource**(**RoomList**,** Nothing**)**

cbRoom.DisplayMember **=** "Key"

cbRoom.ValueMember **=** "Value"

cbRoom.SelectedIndex **=** cbRoom.Items.Count **-** **1**

End Sub

Sub GetCbTeacher**()**

Dim teacherList **=** course.GetTeacherList**()**

teacherList.Add**(**"ជ្រើសរើសគ្រូបង្រៀន"**,** "-1"**)**

cbTeacher.DataSource **=** New BindingSource**(**teacherList**,** Nothing**)**

cbTeacher.DisplayMember **=** "Key"

cbTeacher.ValueMember **=** "Value"

cbTeacher.SelectedIndex **=** cbTeacher.Items.Count **-** **1**

End Sub

Sub GetcbCourse**()**

Dim courseList **=** course.GetCourseList**()**

courseList.Add**(**"ជ្រើសរើសវគ្គសិក្សា"**,** **-1)**

cbSubject.DataSource **=** New BindingSource**(**courseList**,** Nothing**)**

cbSubject.DisplayMember **=** "Key"

cbSubject.ValueMember **=** "Value"

cbSubject.SelectedIndex **=** cbSubject.Items.Count **-** **1** ' Select the last item (which is "All")

End Sub

Sub GetcbSearch**()**

Dim teacherList **=** course.GetTeacherList**()**

teacherList.Add**(**"គ្រប់គ្រូទាំងអស់"**,** "%"**)**

cbSearchTeacher.DataSource **=** New BindingSource**(**teacherList**,** Nothing**)**

cbSearchTeacher.DisplayMember **=** "Key"

cbSearchTeacher.ValueMember **=** "Value"

cbSearchTeacher.SelectedIndex **=** cbSearchTeacher.Items.Count **-** **1**

End Sub

Sub GetcbStatus**()**

Dim classStatusList **=** course.GetClassStatusList**()**

classStatusList.Add**(**"គ្រប់ស្ថានភាព"**,** **0)**

cbSearchStatus.DataSource **=** New BindingSource**(**classStatusList**,** Nothing**)**

cbSearchStatus.DisplayMember **=** "Key"

cbSearchStatus.ValueMember **=** "Value"

cbSearchStatus.SelectedIndex **=** cbSearchStatus.Items.Count **-** **1** ' Select the last item (which is "All")

End Sub

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

If Not CheckValidation**()** Then

Return

End If

course.ID **=** txtCourseID.Text.Trim**()**

course.scheduleID **=** Convert.ToInt32**(**cbSchedule.SelectedValue.ToString**())**

course.room.GetRoomByID**(**cbRoom.SelectedValue**)**

course.teacher.TeacherID **=** cbTeacher.SelectedValue.ToString**()**

course.subject.ID **=** cbSubject.SelectedValue.ToString**()**

course.startDate **=** dtpStartDate.Value

course.endDate **=** dtpEndDate.Value

course.AddCourse**()**

Display**()**

End Sub

Sub SearchCourseData**()** Handles txtSearch.TextChanged**,** cbSearchTeacher.SelectedIndexChanged**,** cbSearchStatus.SelectedIndexChanged

If startup Then

Return

Else

Dim textSearch **=** If**(**txtSearch.Text.Trim**()** **=** ""**,** "%"**,** txtSearch.Text.Trim**())**

Dim id As String **=** If**(**IsNumeric**(**textSearch**),** textSearch **&** "%"**,** "%"**)**

Dim subject As String **=** If**(**IsNumeric**(**textSearch**),** "%"**,** textSearch **&** "%"**)**

Dim StatusID As String **=** If**(**cbSearchStatus.SelectedValue **=** **0,** "%"**,** cbSearchStatus.SelectedValue.ToString**())**

Dim teacherSearch **=** cbSearchTeacher.SelectedValue.ToString**()**

Dim query As String **=** " SELECT tblCourse.ID, tblSubject.Subject, tblTeacher.KhName, tblRoom.Room,

tblSchedule.Schedule**,** tblCourse.CurrentEnrollment**,** tblCourseStatus.Status

FROM tblSchedule INNER JOIN **(**tblRoom INNER JOIN **(**tblTeacher

INNER JOIN **(**tblSubject INNER JOIN **(**tblCourseStatus INNER JOIN tblCourse

ON **(**tblCourseStatus.ID **=** tblCourse.StatusID**)** AND **(**tblCourseStatus.ID **=** tblCourse.StatusID**))**

ON tblSubject.ID **=** tblCourse.SubjectID**)** ON tblTeacher.ID **=** tblCourse.TeacherID**)**

ON tblRoom.ID **=** tblCourse.RoomID**)** ON tblSchedule.ID **=** tblCourse.ScheduleID

WHERE tblCourse.ID LIKE @id AND tblSubject.Subject LIKE @subject AND tblTeacher.ID LIKE @teacher AND tblCourse.StatusID LIKE @StatusID**;**"

Dim cmd As New OleDbCommand**(**query**,** course.GetConnection**())**

cmd.Parameters.AddWithValue**(**"@id"**,** id**)**

cmd.Parameters.AddWithValue**(**"@subject"**,** subject**)**

cmd.Parameters.AddWithValue**(**"@Teacher"**,** teacherSearch**)**

cmd.Parameters.AddWithValue**(**"@StatusID"**,** StatusID**)**

InsertData**(**course.ExecuteQuery**(**cmd**))**

End If

End Sub

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

cbSearchTeacher.SelectedIndex **=** cbSearchTeacher.Items.Count **-** **1**

cbSearchStatus.SelectedIndex **=** cbSearchStatus.Items.Count **-** **1**

txtSearch.Text **=** ""

Display**()**

End Sub

'Insert DATA To DataGridView

Private Sub InsertData**(**data As DataTable**)**

DataGridView1.DataSource **=** data

Regonize**()**

End Sub

' Regonize DataGridView2

Sub Regonize**()**

If DataGridView1.Columns.Count **=** **7** Then

With DataGridView1

**.**Columns**(0).**HeaderText **=** "លេខកូដ"

**.**Columns**(0).**Width **=** **100**

**.**Columns**(0).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(0).**DefaultCellStyle.Format **=** "000"

**.**Columns**(1).**Width **=** **250**

**.**Columns**(1).**HeaderText **=** "វគ្គសិក្សា"

**.**Columns**(2).**Width **=** **200**

**.**Columns**(2).**HeaderText **=** "គ្រូបង្រៀន"

**.**Columns**(3).**Width **=** **150**

**.**Columns**(3).**HeaderText **=** "បន្ទប់"

**.**Columns**(3).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(4).**Width **=** **200**

**.**Columns**(4).**HeaderText **=** "វេនសិក្សា"

**.**Columns**(4).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(5).**Width **=** **150**

**.**Columns**(5).**HeaderText **=** "សិស្សសរុប"

**.**Columns**(5).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(6).**Width **=** **200**

**.**Columns**(6).**HeaderText **=** "ស្ថានភាព"

**.**Columns**(6).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

End With

For i As Integer **=** **0** To DataGridView1.Rows.Count **-** **1**

If i Mod **2** **=** **1** Then

DataGridView1.Rows**(**i**).**DefaultCellStyle.BackColor **=** Color.FromArgb**(254,** **254,** **254)** ' Alternate row color

Else

DataGridView1.Rows**(**i**).**DefaultCellStyle.BackColor **=** Color.FromArgb**(245,** **250,** **253)**

End If

Next i

End If

For Each col As DataGridViewColumn In DataGridView1.Columns

col.SortMode **=** DataGridViewColumnSortMode.NotSortable

Next

DataGridView1.ClearSelection**()**

End Sub

Private Sub ManageClassForm\_Load**(**sender As Object**,** e As EventArgs**)** Handles MyBase.Load 'Load the form and initialize components

GetCbTime**()**

GetCbRoom**()**

GetCbTeacher**()**

GetcbCourse**()**

End Sub

Private Sub btnTime\_Click**(**sender As Object**,** e As EventArgs**)** Handles btnTime.Click 'Show the Schedule form

Dim ScheduleForm As New Schedule**()**

ScheduleForm.ShowDialog**()**

ScheduleForm.Dispose**()**

startup **=** True

GetCbTime**()**

GetcbStatus**()**

GetcbSearch**()**

startup **=** False

End Sub

Private Sub btnRoom\_Click**(**sender As Object**,** e As EventArgs**)** Handles btnRoom.Click 'Show the Room form

Dim RoomForm As New RoomForm**()**

RoomForm.ShowDialog**()**

RoomForm.Dispose**()**

GetCbRoom**()**

GetcbSearch**()**

GetcbStatus**()**

End Sub

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

Panel2.Visible **=** True 'Show the panel for adding a new class

cbStatus.Enabled **=** False

End Sub

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

txtCourseID.Text **=** ""

cbSubject.SelectedIndex **=** cbSubject.Items.Count **-** **1**

cbRoom.SelectedIndex **=** cbRoom.Items.Count **-** **1**

cbTeacher.SelectedIndex **=** cbTeacher.Items.Count **-** **1**

cbSchedule.SelectedIndex **=** cbSchedule.Items.Count **-** **1**

dtpStartDate.Value **=** DateTime.Now

Panel2.Visible **=** False

btnEdit.Visible **=** False

txtCourseID.ReadOnly **=** False

btnNewClass.Visible **=** True 'Hide the panel for adding a new class

End Sub

Private Sub DataGridView2\_Sorted**(**sender As Object**,** e As EventArgs**)** Handles DataGridView1.Sorted

Regonize**()** 'Prepare the DataGridView after sorting

End Sub

Private Sub DataGridView1\_MouseClick**(**sender As Object**,** e As MouseEventArgs**)** Handles DataGridView1.MouseClick

Dim menu As New ContextMenuStrip**()**

menu.Font **=** New Font**(**"Khmer OS System"**,** **11)**

menu.Items.Add**(**"លម្អិត"**,** Nothing**,** AddressOf ShowDetails**)**

menu.Items.Add**(**"កែប្រែ"**,** Nothing**,** AddressOf EditClass**)**

menu.Items.Add**(**"លុប"**,** Nothing**,** AddressOf DeleteCourse**)**

menu.Items**(0).**BackColor **=** Color.FromArgb**(245,** **250,** **253)**

If e.Button **=** MouseButtons.Right Then

Dim hit As DataGridView.HitTestInfo **=** DataGridView1.HitTest**(**e.X**,** e.Y**)**

If hit.RowIndex **>=** **0** Then

Dim ClassID As String **=** DataGridView1.Rows**(**hit.RowIndex**).**Cells**(0).**Value.ToString**()**

course.GetCourseByID**(**ClassID**)**

menu.Show**(**DataGridView1**,** e.Location**)**

End If

End If

End Sub

Private Sub DeleteCourse**()**

If DialogResult.Yes **=** MessageBox.Show**(**"តើអ្នកពិតជាចង់លុបថ្នាក់រៀននេះមែនទេ?"**,** "លុបវគ្គសិក្សា"**,** MessageBoxButtons.YesNo**,** MessageBoxIcon.Question**)** Then

course.DeleteCourse**()**

Display**()**

End If

End Sub

Private Sub ShowDetails**()**

Dim classDetail As New CourseDetail**(**course**)**

classDetail.ShowDialog**()**

classDetail.Dispose**()**

Display**()**

startup **=** True

GetcbSearch**()**

GetcbStatus**()**

startup **=** False

End Sub

Private Sub EditClass**()**

txtCourseID.Text **=** course.ID

cbSubject.SelectedIndex **=** cbSubject.FindStringExact**(**course.subject.Subject**)**

cbTeacher.SelectedValue **=** course.teacher.TeacherID

cbRoom.SelectedValue **=** course.room.id

cbSchedule.SelectedValue **=** course.scheduleID

dtpStartDate.Value **=** course.startDate

dtpEndDate.Value **=** course.endDate

cbStatus.SelectedIndex **=** course.statusID **-** **1**

Panel2.Visible **=** True

btnEdit.Visible **=** True

btnNewClass.Visible **=** False

cbStatus.Enabled **=** True

End Sub

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

If txtCourseID.Text **=** course.ID And cbSubject.SelectedValue **=** course.subject.ID And cbRoom.SelectedValue **=** course.room.id And cbTeacher.SelectedValue **=** course.teacher.TeacherID And dtpStartDate.Value **=** course.startDate And dtpEndDate.Value **=** course.endDate And

cbSchedule.SelectedValue **=** course.scheduleID And cbStatus.SelectedIndex **=** course.statusID **-** **1** Then

MessageBox.Show**(**"សូមកែប្រែវគ្គសិក្សា"**,** "ទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Information**)**

Return

End If

If Not CheckField**()** Then

Return

End If

course.ID **=** txtCourseID.Text.Trim**()**

course.scheduleID **=** Convert.ToInt32**(**cbSchedule.SelectedValue.ToString**())**

course.room.GetRoomByID**(**cbRoom.SelectedValue**)**

course.teacher.TeacherID **=** cbTeacher.SelectedValue.ToString**()**

course.subject.ID **=** cbSubject.SelectedValue.ToString**()**

course.startDate **=** dtpStartDate.Value

course.endDate **=** dtpEndDate.Value

course.statusID **=** cbStatus.SelectedIndex **+** **1**

txtCourseID.ReadOnly **=** True

course.UpdateCourse**()**

MessageBox.Show**(**"វគ្គសិក្សា ត្រូវបានកែប្រែដោយជោគជ័យ!"**,** "បច្ចុប្បន្នភាពវគ្គសិក្សា"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Information**)**

Display**()**

End Sub

Private Sub Panel1\_Paint**(**sender As Object**,** e As PaintEventArgs**)** Handles Panel1.Paint

Display**()**

startup **=** False

End Sub

End Class

**8.SubjectForm**

Imports System.Windows

Imports System.Windows.Controls

Public Class SubjectForm

Dim subject As New Subject**()**

Dim startup As Boolean **=** True

Sub Display**()**

DataGridView1.DataSource **=** subject.GetSubjectData**()**

Regonize**()**

End Sub

Function CheckField**()** As Boolean

Dim subject As String **=** txtSubject.Text.Trim**()**

Dim description As String **=** txtDes.Text.Trim**()**

Dim creditHours As String **=** txtCreditHours.Text.Trim**()**

Dim basePrice As String **=** txtBasePrice.Text.Trim**()**

If String.IsNullOrEmpty**(**subject**)** Then

MessageBox.Show**(**"សូមបញ្ចូលមុខវិជ្ជាអោយបានត្រឹមត្រូវ!!!!"**,** "បញ្ចូលទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

End If

If String.IsNullOrEmpty**(**description**)** Then

MessageBox.Show**(**"សូមបញ្ចូលការពិពណ៌នាអំពីមុខវិជ្ជា!!!!"**,** "បញ្ចូលទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

End If

If String.IsNullOrEmpty**(**creditHours**)** OrElse Not IsNumeric**(**creditHours**)** Then

MessageBox.Show**(**"សូមបញ្ចូលរយៈពេលសិក្សា!!!!"**,** "បញ្ចូលទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

End If

If String.IsNullOrEmpty**(**basePrice**)** OrElse Not IsNumeric**(**basePrice**)** Then

MessageBox.Show**(**"សូមបញ្ចូលតម្លៃនៃមុខវិជ្ជានេះ!!!!"**,** "បញ្ចូលទិន្ន័យមិនត្រឹមត្រូវ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Error**)**

Return False

End If

Return True

End Function

Private Sub btmCreate\_Click**(**sender As Object**,** e As EventArgs**)** Handles btnCreate.Click

If Not CheckField**()** Then

Return

Else

'Check Duplicate Subject

Dim dt As DataTable **=** Me.subject.GetSubjectData**()**

For Each row As DataRow In dt.Rows

If txtSubject.Text.Trim**()** **=** row**(1).**ToString**()** Then

MsgBox**(**"មុខវិជ្ជានេះគឺមានរូចហើយ"**)**

Return

End If

Next

subject.AddSubject**(**txtSubject.Text.Trim**(),** txtDes.Text.Trim**(),** Convert.ToInt32**(**txtCreditHours.Text.Trim**()),** Convert.ToDecimal**(**txtBasePrice.Text.Trim**()))**

MessageBox.Show**(**"វគ្គសិក្សា ៖ " **&** txtSubject.Text **&** "ត្រូវបានបង្កើតបានដោយជោគជ័យ!!!!"**,** "Success"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Information**)**

End If

Display**()**

End Sub

Private Sub Panel5\_Paint**(**sender As Object**,** e As PaintEventArgs**)** Handles Panel5.Paint

Display**()**

startup **=** False

End Sub

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

Panel1.Visible **=** True

btnCreate.Visible **=** True

End Sub

Private Sub DataGridView1\_MouseClick**(**sender As Object**,** e As MouseEventArgs**)** Handles DataGridView1.MouseClick

Dim menu As New ContextMenuStrip**()**

menu.Font **=** New Font**(**"Khmer OS System"**,** **11)**

menu.Items.Add**(**"លម្អិត"**,** Nothing**,** AddressOf ShowDetails**)**

menu.Items.Add**(**"កែប្រែ"**,** Nothing**,** AddressOf EditCourse**)**

menu.Items.Add**(**"លុប"**,** Nothing**,** AddressOf DeleteCourse**)**

menu.Items**(0).**BackColor **=** Color.FromArgb**(245,** **250,** **253)**

If e.Button **=** MouseButtons.Right Then

Dim hit As DataGridView.HitTestInfo **=** DataGridView1.HitTest**(**e.X**,** e.Y**)**

If hit.RowIndex **>=** **0** Then

DataGridView1.Rows**(**hit.RowIndex**).**Selected **=** True

Dim subjectID As String **=** DataGridView1.Rows**(**hit.RowIndex**).**Cells**(0).**Value.ToString**()**

subject.GetSubjectByID**(**subjectID**)**

menu.Show**(**DataGridView1**,** e.Location**)**

End If

End If

End Sub

Private Sub DeleteCourse**()**

If DialogResult.Yes **=** MessageBox.Show**(**"តើអ្នកពិតជាចង់លុបវគ្គសិក្សានេះទេ?"**,** "Confirm Delete"**,** MessageBoxButtons.YesNo**,** MessageBoxIcon.Question**)** Then

subject.DeleteSubject**()**

MessageBox.Show**(**"វគ្គសិក្សា ៖ " **&** subject.Subject **&** " ត្រូវបានលុបដោយជោគជ័យ!"**,** "Success"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Information**)**

Display**()**

End If

End Sub

Private Sub EditCourse**()**

Panel1.Visible **=** True

btnEdit.Visible **=** True

txtSubject.Text **=** subject.Subject

txtDes.Text **=** subject.Description.ToString**()**

txtCreditHours.Text **=** subject.CreditHours.ToString**()**

txtBasePrice.Text **=** subject.basePrice.ToString**(**"F2"**)**

End Sub

Private Sub ShowDetails**()**

Dim courseDialog As New SubjectDetail**(**subject**)**

courseDialog.ShowDialog**()**

Display**()**

End Sub

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

txtBasePrice.Text **=** ""

txtSubject.Text **=** ""

txtDes.Text **=** ""

txtCreditHours.Text **=** ""

subject.ID **=** ""

subject.Subject **=** ""

subject.Description **=** ""

subject.CreditHours **=** **0**

subject.basePrice **=** **0D**

btnEdit.Visible **=** False

btnCreate.Visible **=** False

Panel1.Visible **=** False

End Sub

Private Sub txtSearch\_\_TextChanged**(**sender As Object**,** e As EventArgs**)** Handles txtSearch.TextChanged

If startup Then

Return

End If

Dim dt As New DataTable**()**

Dim query As String **=** "SELECT tblSubject.ID, tblSubject.Subject, tblSubject.Description, tblSubject.CreditHours, tblSubject.BasePrice,

**(**SELECT COUNT**(\*)** FROM tblCourse WHERE tblCourse.ID **=** tblSubject.ID**)** AS AllCourses**,**

**(**SELECT COUNT**(\*)** FROM tblCourse WHERE StatusID **=** **3** AND tblCourse.ID **=** tblSubject.ID**)** AS CompleteCourse

FROM tblSubject

WHERE **((**tblSubject.ID **=** @id**)** or **(**tblSubject.Subject LIKE @Condition**));**"

Dim cmd As New OleDb.OleDbCommand**(**query**,** subject.GetConnection**())**

Dim id As Integer

Dim condition As String **=** txtSearch.Text.Trim**()**

If IsNumeric**(**condition**)** Then

id **=** Integer.Parse**(**condition**)**

Else

id **=** **0**

End If

condition **=** condition **+** "%"

cmd.Parameters.AddWithValue**(**"@id"**,** id**)**

condition **=** condition **&** "%"

cmd.Parameters.AddWithValue**(**"@Condition"**,** condition**)**

DataGridView1.DataSource **=** subject.ExecuteQuery**(**cmd**)**

Regonize**()**

End Sub

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

txtSearch.Texts **=** ""

Display**()**

End Sub

Sub Regonize**()**

With DataGridView1

**.**ColumnHeadersHeight **=** **40**

**.**Columns**(0).**Width **=** **50** ' ID column width

**.**Columns**(0).**DefaultCellStyle.Format **=** "000"

**.**Columns**(1).**Width **=** **200** ' Course Name column width

**.**Columns**(2).**Width **=** **250** ' Description column width

**.**Columns**(3).**Width **=** **150** ' Description column width

**.**Columns**(4).**Width **=** **150**

**.**Columns**(5).**Width **=** **150**

**.**Columns**(6).**Width **=** **150**

**.**Columns**(0).**HeaderText **=** "ID"

**.**Columns**(1).**HeaderText **=** "វគ្គសិក្សា"

**.**Columns**(2).**HeaderText **=** "ការពិពណ៌នា"

**.**Columns**(3).**HeaderText **=** "រយៈពេល (ម៉ោង)"

**.**Columns**(3).**DefaultCellStyle.Format **=** "00ម៉ោង"

**.**Columns**(4).**HeaderText **=** "តម្លៃ ($)"

**.**Columns**(4).**DefaultCellStyle.Format **=** "C2"

**.**Columns**(5).**HeaderText **=** "ចំនួនថ្នាក់រៀន"

**.**Columns**(6).**HeaderText **=** "ចំនួនថ្នាក់បញ្ចប់"

End With

For i As Integer **=** **0** To DataGridView1.Rows.Count **-** **1**

If i Mod **2** **=** **1** Then

DataGridView1.Rows**(**i**).**DefaultCellStyle.BackColor **=** Color.FromArgb**(254,** **254,** **254)** ' Alternate row color

Else

DataGridView1.Rows**(**i**).**DefaultCellStyle.BackColor **=** Color.FromArgb**(245,** **250,** **253)**

End If

For j As Integer **=** **3** To DataGridView1.Columns.Count **-** **1**

DataGridView1.Rows**(**i**).**Cells**(**j**).**Style.Alignment **=** DataGridViewContentAlignment.MiddleCenter

Next j

Next i

For Each col As DataGridViewColumn In DataGridView1.Columns

col.SortMode **=** DataGridViewColumnSortMode.NotSortable

Next

DataGridView1.ClearSelection**()**

End Sub

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

If CheckField**()** Then

If txtSubject.Text **=** subject.Subject And txtDes.Text **=** subject.Description And Convert.ToDecimal**(**txtBasePrice.Text.Trim**())** **=** subject.basePrice And Convert.ToInt16**(**txtCreditHours.Text.Trim**())** **=** subject.CreditHours Then

MessageBox.Show**(**"មិនមានទិន្ន័យណាត្រូវបានកែប្រែទេ!!!"**)**

Else

subject.Subject **=** txtSubject.Text.Trim**()**

subject.basePrice **=** Convert.ToDecimal**(**txtBasePrice.Text.Trim**())**

subject.CreditHours **=** Convert.ToInt32**(**txtCreditHours.Text.Trim**())**

subject.Description **=** txtDes.Text.Trim**()**

subject.UpdateSubject**()**

MsgBox**(**"មុខវិជ្ជាត្រូវបានកែប្រែដោយជោគជ័យ"**)**

Display**()**

End If

End If

End Sub

End Class

**9.ReportForm**

Imports System.Drawing.Printing

Imports System.IO

Imports CrystalDecisions.CrystalReports.Engine

Imports CrystalDecisions.Shared

Imports CrystalDecisions.Windows.Forms

Imports Org.BouncyCastle.Asn1

Public Class ReportForm

Dim report As New Report**()**

Dim reportDocument As New ReportDocument

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

End Sub

Private Sub cbReport\_SelectedIndexChanged**(**sender As Object**,** e As EventArgs**)** Handles cbReport.SelectedIndexChanged

If cbReport.SelectedIndex **=** cbReport.Items.Count **-** **1** Then

crsReport.ReportSource **=** Nothing

Return

ElseIf cbReport.SelectedIndex **=** **0** Then

StudentReport**()**

ElseIf cbReport.SelectedIndex **=** **1** Then

TeacherReport**()**

ElseIf cbReport.SelectedIndex **=** **2** Then

CourseReport**()**

ElseIf cbReport.SelectedIndex **=** **3** Then

SubjectReport**()**

ElseIf cbReport.SelectedIndex **=** **4** Then

PaymentReport**()**

End If

End Sub

Sub TeacherReport**()**

reportDocument.Load**(**Application.StartupPath **&** "\Report\TeacherReport.rpt"**)**

reportDocument.Database.Tables**(**"tblTeacherReport"**).**SetDataSource**(**report.GetTeacherReport**())**

crsReport.ReportSource **=** reportDocument

End Sub

Sub StudentReport**()**

reportDocument.Load**(**Application.StartupPath **&** "\Report\StudentReport.rpt"**)**

reportDocument.Database.Tables**(**"tblStudentReport"**).**SetDataSource**(**report.GetStudentReport**())**

crsReport.ReportSource **=** reportDocument

End Sub

Sub CourseReport**()**

reportDocument.Load**(**Application.StartupPath **&** "\Report\CourseReport.rpt"**)**

reportDocument.Database.Tables**(**"tblCourseReport"**).**SetDataSource**(**report.GetCourseReport**())**

crsReport.ReportSource **=** reportDocument

End Sub

Sub SubjectReport**()**

reportDocument.Load**(**Application.StartupPath **&** "\Report\SubjectReport.rpt"**)**

reportDocument.Database.Tables**(**"tblSubjectReport"**).**SetDataSource**(**report.GetSubjectReport**())**

crsReport.ReportSource **=** reportDocument

End Sub

Sub PaymentReport**()**

reportDocument.Load**(**Application.StartupPath **&** "\Report\PaymentReport.rpt"**)**

reportDocument.Database.Tables**(**"tblPaymentReport"**).**SetDataSource**(**report.GetPaymentReport**())**

crsReport.ReportSource **=** reportDocument

End Sub

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

If cbReport.SelectedIndex **=** cbReport.Items.Count **-** **1** Then

MessageBox.Show**(**"សូមជ្រើសរើរបាយការណ៍ជាមុនសិន!!!!!"**,** "Warning"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Warning**)**

Return

End If

Try

Dim dlg As New PrintDialog**()**

dlg.AllowSomePages **=** True

dlg.PrinterSettings **=** New PrinterSettings**()**

If dlg.ShowDialog**()** **=** DialogResult.OK Then

reportDocument.PrintOptions.PrinterName **=** dlg.PrinterSettings.PrinterName

reportDocument.PrintOptions.PaperSize **=** CrystalDecisions.Shared.PaperSize.PaperA4

reportDocument.PrintOptions.PaperOrientation **=** PaperOrientation.Landscape

reportDocument.PrintToPrinter**(**dlg.PrinterSettings.Copies**,** False**,** **0,** **0)**

End If

Catch ex As Exception

MessageBox.Show**(**"របាយការណ៍័មិនអាច"**)**

End Try

End Sub

Private Sub Guna2Button2\_Click**(**sender As Object**,** e As EventArgs**)** Handles btnExport.Click

If cbReport.SelectedIndex **=** cbReport.Items.Count **-** **1** Then

MessageBox.Show**(**"សូមជ្រើសរើសរបាយការណ៍!!!!"**,** "Warrning"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Warning**)**

Return

End If

Dim exportOption As ExportOptions

Dim diskFileDestinationOptions As New DiskFileDestinationOptions**()**

Dim exportPath As String **=** Application.StartupPath **&** "\Export\Report"

If Not Directory.Exists**(**exportPath**)** Then

Directory.CreateDirectory**(**exportPath**)**

End If

Dim sfd As New SaveFileDialog**()**

sfd.InitialDirectory **=** exportPath

sfd.Filter **=** "PDF Files|\*.pdf|Excel Files|\*.xls"

sfd.FileName **=** cbReport.Text **&** "\_" **&** DateTime.Now**().**ToString**(**"dd-MM-yyyy"**)**

If sfd.ShowDialog**()** **=** DialogResult.OK Then

diskFileDestinationOptions.DiskFileName **=** sfd.FileName

Else

Return

End If

exportOption **=** reportDocument.ExportOptions

exportOption.ExportDestinationType **=** ExportDestinationType.DiskFile

exportOption.ExportDestinationOptions **=** diskFileDestinationOptions

Select Case Path.GetExtension**(**sfd.FileName**).**ToLower**()**

Case ".pdf"

exportOption.ExportFormatType **=** ExportFormatType.PortableDocFormat

exportOption.FormatOptions **=** New PdfRtfWordFormatOptions**()**

Case ".xls"

exportOption.ExportFormatType **=** ExportFormatType.Excel

exportOption.FormatOptions **=** New ExcelFormatOptions**()** With **{**

**.**ExcelUseConstantColumnWidth **=** True

**}**

Case ".html"

exportOption.ExportFormatType **=** ExportFormatType.HTML40

exportOption.FormatOptions **=** New HTMLFormatOptions**()** With **{**

**.**HTMLBaseFolderName **=** Path.GetDirectoryName**(**sfd.FileName**),**

**.**HTMLFileName **=** Path.GetFileName**(**sfd.FileName**)**

**}**

Case Else

MessageBox.Show**(**"Unsupported export format."**)**

Return

End Select

reportDocument.Export**()**

Process.Start**(**sfd.FileName**)**

End Sub

End Class

**11.RoomForm**

Imports System.Data.OleDb

Public Class RoomForm

Dim conn As New ConnectionDB**()**

Dim room As New Room

Sub Display**()**

Dim query As String **=** "SELECT tblRoom.\* FROM tblRoom;"

Dim dt As DataTable **=** conn.ExecuteQuery**(**query**)**

DataGridView2.DataSource **=** dt

DataGridView2.Columns**(0).**Width **=** **100** ' ID column width)

DataGridView2.Columns**(1).**HeaderText **=** "ឈ្មោះបន្ទប់"

DataGridView2.ClearSelection**()**

For i As Integer **=** **0** To DataGridView2.Rows.Count **-** **1**

If i Mod **2** **=** **1** Then

DataGridView2.Rows**(**i**).**DefaultCellStyle.BackColor **=** Color.FromArgb**(254,** **254,** **254)** ' Alternate row color

Else

DataGridView2.Rows**(**i**).**DefaultCellStyle.BackColor **=** Color.FromArgb**(245,** **250,** **253)**

End If

Next i

End Sub

Private Sub Panel2\_Paint**(**sender As Object**,** e As PaintEventArgs**)** Handles Panel2.Paint

Display**()**

End Sub

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

If txtRoom.Text.Trim**()** **=** "" Then

MsgBox**(**"សូមបញ្ចូលឈ្មោះបន្ទប់"**)**

Return

End If

Dim query As String **=** "SELECT COUNT(\*) FROM tblRoom WHERE Room = @room;"

Dim cmd As New OleDbCommand**(**query**,** room.GetConnection**())**

cmd.Parameters.AddWithValue**(**"@room"**,** txtRoom.Text.Trim**())**

Dim count As Integer **=** Convert.ToInt16**(**room.ExecuteScalar**(**cmd**))**

If count **>** **0** Then

MessageBox.Show**(**"បន្ទប់សិកស្សានេះមានរួចហើយ"**,** "បន្ទប់មានរួចហើយ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Warning**)**

Return

End If

query **=** "INSERT INTO tblRoom (Room) VALUES (@RoomName);"

cmd **=** New OleDbCommand**(**query**,** conn.GetConnection**())**

cmd.Parameters.AddWithValue**(**"@RoomName"**,** txtRoom.Text.Trim**())**

conn.ExecuteNonQuery**(**cmd**)**

txtRoom.Text **=** ""

MessageBox.Show**(**"បន្ទប់សិក្សា " **&** txtRoom.Text **&** " នេះត្រូវបានបង្កើតដោយជោគជ័យ"**,** "ជោគជ័យ"**,** MessageBoxButtons.OK**,** MessageBoxIcon.Information**)**

Display**()**

End Sub

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

If DialogResult.Yes **=** MessageBox.Show**(**"តើអ្នកពិតជាចង់លុបបន្ទប់នេះមែនទេ?"**,** "បញ្ជាក់"**,** MessageBoxButtons.YesNo**,** MessageBoxIcon.Question**)** Then

Dim query As String **=** "DELETE FROM tblRoom WHERE ID = @ID;"

Dim cmd As OleDbCommand **=** New OleDbCommand**(**query**,** conn.GetConnection**())**

cmd.Parameters.AddWithValue**(**"@ID"**,** room.id**)**

conn.ExecuteNonQuery**(**cmd**)**

Display**()**

End If

End Sub

Private Sub DataGridView2\_CellClick**(**sender As Object**,** e As DataGridViewCellEventArgs**)** Handles DataGridView2.CellClick

room.GetRoomByID**(**Convert.ToInt16**(**DataGridView2.CurrentRow.Cells**(0).**Value**))**

txtRoom.Text **=** room.room

End Sub

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

txtRoom.Clear**()**

End Sub

End Class

**12.ScheduleForm**

Imports System.Data.OleDb

Imports Org.BouncyCastle.Bcpg

Public Class Schedule

Dim conn As New ConnectionDB**()**

Dim id As Integer **=** **0**

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

cbDay.SelectedIndex **=** cbDay.Items.Count **-** **1**

Display**()**

End Sub

Sub Display**()**

Dim query As String **=** "SELECT \* FROM tblSchedule"

Dim dt As DataTable **=** conn.ExecuteQuery**(**query**)**

DataGridView2.DataSource **=** dt

DataGridView2.Columns**(0).**Width **=** **100** ' ID column width

DataGridView2.ClearSelection**()**

For i As Integer **=** **0** To DataGridView2.Rows.Count **-** **1**

If i Mod **2** **=** **1** Then

DataGridView2.Rows**(**i**).**DefaultCellStyle.BackColor **=** Color.FromArgb**(254,** **254,** **254)** ' Alternate row color

Else

DataGridView2.Rows**(**i**).**DefaultCellStyle.BackColor **=** Color.FromArgb**(245,** **250,** **253)**

End If

Next i

End Sub

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

If cbDay.SelectedIndex **=** cbDay.Items.Count **-** **1** Then

MsgBox**(**"សូមជ្រើសរើសវេនសិក្សាជាមុនសិន"**)**

Return

End If

Dim schedule As String **=** cbDay.SelectedItem.ToString**()** **+** " " **+** tpStart.Value.ToString**(**"hh:mm tt"**).**Split**(**" "c**)(0)** **+** "-" **+** tpEnd.Value.ToString**(**"hh:mm tt"**)**

If IsDuplicate**(**schedule**)** Then

MsgBox**(**"សូមអភ័យទោសវេនសិក្សានេះមានរួចហើយ"**)**

Return

End If

Dim query As String **=** "INSERT INTO tblSchedule (Schedule) VALUES (@Schedule);"

Dim cmd As OleDbCommand **=** New OleDbCommand**(**query**,** conn.GetConnection**())**

cmd.Parameters.AddWithValue**(**"@Schedule"**,** schedule**)**

conn.ExecuteNonQuery**(**cmd**)**

Display**()**

End Sub

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

If DataGridView2.SelectedRows.Count **=** **0** Then

MsgBox**(**"សូមជ្រើសរើសទិន្ន័យពីបញ្ជីវេនសិក្សាជាមុនសិន !!!"**)**

Return

End If

Dim id As Integer **=** Convert.ToInt32**(**DataGridView2.CurrentRow.Cells**(0).**Value**)**

Dim query As String **=** "DELETE FROM tblSchedule WHERE ID = @ID;"

Dim cmd As OleDbCommand **=** New OleDbCommand**(**query**,** conn.GetConnection**())**

cmd.Parameters.AddWithValue**(**"@ID"**,** id**)**

conn.ExecuteNonQuery**(**cmd**)**

Display**()**

id **=** **0** ' Reset id after deletion

End Sub

Function IsDuplicate**(**value As String**)**

Dim query As String **=** "SELECT COUNT(\*) FROM tblSchedule WHERE Schedule = @Schedule;"

Dim cmd As OleDbCommand **=** New OleDbCommand**(**query**,** conn.GetConnection**())**

cmd.Parameters.AddWithValue**(**"@Schedule"**,** value**)**

conn.OpenConnection**()**

Dim count As Integer **=** Convert.ToInt32**(**cmd.ExecuteScalar**())**

conn.CloseConnection**()**

Return count **>** **0**

End Function

Private Sub DataGridView2\_CellClick**(**sender As Object**,** e As DataGridViewCellEventArgs**)** Handles DataGridView2.CellClick

Dim schedule**()** As String **=** DataGridView2.CurrentRow.Cells**(1).**Value.ToString**().**Split**(**" "**)**

cbDay.SelectedIndex **=** If**(**schedule**(0)** **=** cbDay.Items**(0).**ToString**(),** **0,** **1)** ' Weekday or Weekend

Dim time**()** As String **=** schedule**(1).**Split**(**"-"**)**

Dim parsedTime As DateTime **=** DateTime.Parse**(**time**(0)** **&** " " **&** schedule**(2))**

tpStart.Value **=** DateTime.Today.AddHours**(**parsedTime.Hour**)**

parsedTime **=** DateTime.Parse**(**time**(1)** **&** " " **&** schedule**(2))**

tpEnd.Value **=** DateTime.Today.AddHours**(**parsedTime.Hour**)**

End Sub

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

cbDay.SelectedIndex **=** cbDay.Items.Count **-** **1**

DataGridView2.ClearSelection**()**

id **=** **0**

End Sub

End Class

**13.CrouseDetail Form**

Imports System.Data.OleDb

Public Class CourseDetail

Dim course As New Course**()**

Public Sub New**(**classDetail As Course**)**

' This call is required by the designer.

InitializeComponent**()**

' Add any initialization after the InitializeComponent() call.

Me.course **=** classDetail

FillClassDetails**()**

End Sub

Sub FillClassDetails**()**

txtID.Text **=** course.ID

txtCourse.Text **=** course.subject.Subject

txtTeacher.Text **=** course.teacher.KhName

txtStartDate.Text **=** course.startDate.ToString**(**"dd/MM/yyyy"**)**

txtEndDate.Text **=** course.endDate.ToString**(**"dd/MM/yyyy"**)**

txtRoom.Text **=** course.room.room

txtSchedule.Text **=** course.GetSchedule**()**

txtStatus.Text **=** course.GetStatus**()**

End Sub

Sub GetData**()**

Dim query As String **=** "SELECT tblStudent.ID, tblStudent.KhName, tblStudent.Phone, tblStudent.Address, tblPaymentStatus.Status

FROM **(**tblPaymentStatus INNER JOIN tblPayment ON tblPaymentStatus.ID **=** tblPayment.StatusID**)** INNER JOIN **(**tblStudent INNER JOIN tblRegister ON tblStudent.ID **=** tblRegister.StudentID**)** ON tblPayment.RegisterID **=** tblRegister.ID

WHERE **(((**tblRegister.CourseID**)=**" & course.ID & "**));**"

Dim dt As DataTable **=** course.ExecuteQuery**(**query**)**

DataGridView1.DataSource **=** dt

Regonize**()**

End Sub

Sub Regonize**()**

If DataGridView1.Columns.Count **=** **5** Then

DataGridView1.Columns**(0).**Width **=** **100**

DataGridView1.Columns**(0).**HeaderText **=** "StudentID"

DataGridView1.Columns**(0).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

DataGridView1.Columns**(1).**Width **=** **200**

DataGridView1.Columns**(1).**HeaderText **=** "ឈ្មោះ"

DataGridView1.Columns**(2).**Width **=** **200**

DataGridView1.Columns**(2).**HeaderText **=** "លេខទូរស័ព្ទ"

DataGridView1.Columns**(2).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

DataGridView1.Columns**(3).**Width **=** **200**

DataGridView1.Columns**(3).**HeaderText **=** "អាស័យដ្ឋាន"

DataGridView1.Columns**(3).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

DataGridView1.Columns**(4).**Width **=** **150**

DataGridView1.Columns**(4).**HeaderText **=** "ស្ថានភាពបង់ប្រាក់"

DataGridView1.Columns**(4).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

For Each col As DataGridViewColumn In DataGridView1.Columns

col.SortMode **=** DataGridViewColumnSortMode.NotSortable

Next

End If

DataGridView1.ClearSelection**()**

End Sub

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

GetData**()**

End Sub

End Class

**14.StudentDetail Form**

Imports System.Windows.Controls

Public Class StudentDetail

Dim student As New Student**()**

Public Sub New**(**student As Student**)**

' This call is required by the designer.

InitializeComponent**()**

' Add any initialization after the InitializeComponent() call.

Me.student **=** student

FillStudentDetails**()**

Display**()**

End Sub

Sub FillStudentDetails**()**

txtID.Text **=** student.id

txtkhName.Text **=** student.khName

txtEngName.Text **=** student.engName

txtAddress.Text **=** student.address

txtPhone.Text **=** student.phone

txtDob.Text **=** student.DateOfBirth.ToString**(**"dd/MM/yyyy"**)**

txtGender.Text **=** student.gender

picStudent.ImageLocation **=** student.picture

End Sub

Sub Display**()**

GetData**()**

With DataGridView1

**.**Columns**(0).**HeaderText **=** "លេខកូដវគ្គសិក្សា"

**.**Columns**(0).**Width **=** **60**

**.**Columns**(0).**DefaultCellStyle.Format **=** "000"

**.**Columns**(0).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(1).**Width **=** **220**

**.**Columns**(1).**HeaderText **=** "វគ្គសិក្សា"

**.**Columns**(2).**Width **=** **70**

**.**Columns**(2).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

**.**Columns**(2).**HeaderText **=** "ប្រាក់មិនទាន់បង"

**.**Columns**(2).**DefaultCellStyle.Format **=** "C2" ' Format as currency

**.**Columns**(3).**HeaderText **=** "ស្ថានភាពវគ្គសិក្សា"

**.**Columns**(3).**Width **=** **180**

**.**Columns**(3).**DefaultCellStyle.Alignment **=** DataGridViewContentAlignment.MiddleCenter

For Each col As DataGridViewColumn In **.**Columns

col.SortMode **=** DataGridViewColumnSortMode.NotSortable

Next

End With

End Sub

Sub GetData**()**

Dim query As String **=** "SELECT tblCourse.ID, tblSubject.Subject, tblPayment.Unpaid, tblCourseStatus.Status

FROM **(**tblCourseStatus INNER JOIN **(**tblSubject INNER JOIN tblCourse ON tblSubject.ID **=** tblCourse.SubjectID**)** ON **(**tblCourseStatus.ID **=** tblCourse.StatusID**)** AND **(**tblCourseStatus.ID **=** tblCourse.StatusID**))** INNER JOIN **(**tblPayment INNER JOIN tblRegister ON tblPayment.RegisterID **=** tblRegister.ID**)** ON tblCourse.ID **=** tblRegister.CourseID

WHERE **(((**tblRegister.StudentID**)=**" & student.id & "**));**"

Dim dt As DataTable **=** student.ExecuteQuery**(**query**)**

DataGridView1.DataSource **=** dt

End Sub

End Class

**15.StudentList Form**

Imports System.Data.OleDb

Imports System.Web.UI.WebControls

Public Class StudentList

Public student As New Student()

Dim startup As Boolean = True

Public Sub GetData() Handles txtSearch.TextChanged

Dim query As String = "SELECT tblStudent.ID, tblStudent.KhName,tblStudent.Gender,

tblStudent.DateOfBirth,tblStudent.Phone FROM tblStudent

WHERE (ID Like @id OR KhName Like @name);"

Dim cmd As New OleDbCommand(query, student.GetConnection())

Dim name As String = txtSearch.Text.Trim()

Dim id As String = If(name = "", "0", If(IsNumeric(name), name, "0")) & "%"

name = If(name = "", "%", "%" & name & "%")

cmd.Parameters.AddWithValue("@id", id)

cmd.Parameters.AddWithValue("@name", name)

DataGridView1.DataSource = student.ExecuteQuery(cmd)

If Not startup Then

Regonize()

End If

End Sub

Sub Regonize()

DataGridView1.Columns(0).HeaderText = "លេខកូដ"

DataGridView1.Columns(0).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DataGridView1.Columns(0).Width = 50

DataGridView1.Columns(0).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DataGridView1.Columns(1).HeaderText = "គោត្តនាម នាម"

DataGridView1.Columns(1).Width = 250

DataGridView1.Columns(1).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleLeft

DataGridView1.Columns(2).HeaderText = "ភេទ"

DataGridView1.Columns(2).Width = 80

DataGridView1.Columns(2).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DataGridView1.Columns(3).HeaderText = "ថ្ងៃខែឆ្នាំកំណើត"

DataGridView1.Columns(3).Width = 100

DataGridView1.Columns(3).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DataGridView1.Columns(4).HeaderText = "លេខទូរស័ព្ទ"

DataGridView1.Columns(4).Width = 150

DataGridView1.Columns(4).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleLeft

For i = 0 To DataGridView1.Columns.Count - 1

DataGridView1.Columns(i).SortMode = DataGridViewColumnSortMode.NotSortable

Next i

End Sub

Private Sub DataGridView1\_CellDoubleClick(sender As Object, e As DataGridViewCellEventArgs)

Dim id As Int16 = Convert.ToInt16(DataGridView1.SelectedRows(0).Cells(0).Value)

student.GetStudentByID(id)

Me.DialogResult = 1

Me.Close()

End Sub

Private Sub btnClear\_Click(sender As Object, e As EventArgs)

txtSearch.Clear()

End Sub

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

GetData()

startup = False

Regonize()

End Sub

End Class

**16.SubjectDetail From**

Public Class SubjectDetail

Dim subject As New Subject()

Public Sub New(course As Subject)

' This call is required by the designer.

InitializeComponent()

' Add any initialization after the InitializeComponent() call.

Me.subject = course

FillCourseDetails()

Display()

End Sub

Sub Display()

Dim query As String = "SELECT tblCourse.ID, tblTeacher.KhName AS Teacher, tblRoom.Room AS Room, tblSchedule.Schedule, tblCourse.CurrentEnrollment, tblCourseStatus.Status

FROM tblTeacher INNER JOIN (tblSchedule INNER JOIN (tblRoom INNER JOIN (tblCourseStatus INNER JOIN tblCourse ON tblCourseStatus.ID = tblCourse.StatusID) ON tblRoom.ID = tblCourse.RoomID) ON tblSchedule.ID = tblCourse.ScheduleID) ON tblTeacher.ID = tblCourse.TeacherID

WHERE tblCourse.SubjectID = @ID;"

Dim cmd As New OleDb.OleDbCommand(query, subject.GetConnection())

cmd.Parameters.AddWithValue("@ID", subject.ID)

DataGridView1.DataSource = subject.ExecuteQuery(cmd)

DataGridView1.ColumnHeadersHeight = 40

'DataGridView1.AllowUserToResizeColumns = True

'Customize DataGridView columns

DataGridView1.Columns(0).Width = 75

DataGridView1.Columns(1).Width = 200

DataGridView1.Columns(2).Width = 100

DataGridView1.Columns(3).Width = 200

DataGridView1.Columns(4).Width = 100

DataGridView1.Columns(5).Width = 100

DataGridView1.Columns(0).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DataGridView1.Columns(1).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleLeft

DataGridView1.Columns(2).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DataGridView1.Columns(3).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DataGridView1.Columns(4).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DataGridView1.Columns(5).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DataGridView1.Columns(0).HeaderText = "ClassID"

DataGridView1.Columns(1).HeaderText = "គ្រូបង្រៀន"

DataGridView1.Columns(2).HeaderText = "បន្ទប់"

DataGridView1.Columns(3).HeaderText = "វេនសិក្សា"

DataGridView1.Columns(4).HeaderText = "សិស្សសរុប"

DataGridView1.Columns(5).HeaderText = "ស្ថានភាព"

For i As Integer = 0 To DataGridView1.Rows.Count - 1

If i Mod 2 = 1 Then

DataGridView1.Rows(i).DefaultCellStyle.BackColor = Color.FromArgb(254, 254, 254) ' Alternate row color

Else

DataGridView1.Rows(i).DefaultCellStyle.BackColor = Color.FromArgb(245, 250, 253)

End If

For j As Integer = 3 To DataGridView1.Columns.Count - 1

DataGridView1.Rows(i).Cells(j).Style.Alignment = DataGridViewContentAlignment.MiddleCenter

Next j

Next i

For Each col As DataGridViewColumn In DataGridView1.Columns

col.SortMode = DataGridViewColumnSortMode.NotSortable

Next

DataGridView1.ClearSelection()

End Sub

Sub FillCourseDetails()

txtSubject.Text = subject.Subject

txtDes.Text = subject.Description.ToString()

txtDuration.Text = subject.CreditHours.ToString()

txtBasePrice.Text = subject.basePrice.ToString("F2")

End Sub

End Class

**17.TeacherDetail Form**

Public Class TeacherDetail

Dim teacher As Teacher = New Teacher()

Public Sub New(teacher As Teacher)

' This call is required by the designer.

InitializeComponent()

' Add any initialization after the InitializeComponent() call.

Me.teacher = teacher

End Sub

Private Sub btnClose\_Click(sender As Object, e As EventArgs)

Me.Close()

End Sub

Private Sub FillData()

txtID.Text = teacher.TeacherID

txtkhName.Text = teacher.KhName

txtEngName.Text = teacher.EngName

txtGender.Text = teacher.Gender

txtAddress.Text = teacher.Address

txtDob.Text = teacher.DoB

txtPhone.Text = teacher.Phone

txtEmail.Text = teacher.Email

picTeacher.ImageLocation = teacher.Picture

End Sub

Sub Display()

Dim query As String = "SELECT tblCourse.ID, tblSubject.Subject, tblSchedule.Schedule, tblRoom.Room, tblCourse.CurrentEnrollment, tblCourseStatus.Status

FROM tblSchedule INNER JOIN (tblRoom INNER JOIN ((tblSubject INNER JOIN (tblCourseStatus INNER JOIN tblCourse ON tblCourseStatus.ID = tblCourse.StatusID) ON tblSubject.ID = tblCourse.SubjectID) INNER JOIN tblRegister ON tblCourse.ID = tblRegister.CourseID) ON tblRoom.ID = tblCourse.RoomID) ON tblSchedule.ID = tblCourse.ScheduleID

GROUP BY tblCourse.ID, tblSubject.Subject, tblSchedule.Schedule, tblRoom.Room, tblCourse.CurrentEnrollment, tblCourseStatus.Status, tblCourse.TeacherID

HAVING (((tblCourse.TeacherID)=[@teacherID]));"

Dim cmd As New OleDb.OleDbCommand(query, teacher.GetConnection())

cmd.Parameters.AddWithValue("@teacherID", teacher.TeacherID)

DataGridView1.DataSource = teacher.ExecuteQuery(cmd)

Regonize()

End Sub

Private Sub Panel3\_Paint(sender As Object, e As PaintEventArgs) Handles Panel3.Paint

FillData()

Display()

End Sub

Sub Regonize()

' Customize DataGridView columns

DataGridView1.ColumnHeadersHeight = 40

DataGridView1.Columns(0).Width = 75

DataGridView1.Columns(0).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DataGridView1.Columns(1).Width = 250

DataGridView1.Columns(1).HeaderText = "វគ្គសិក្សា"

DataGridView1.Columns(2).Width = 200

DataGridView1.Columns(2).HeaderText = "វេនសិក្សា"

DataGridView1.Columns(3).Width = 100

DataGridView1.Columns(3).HeaderText = "បន្ទប់"

DataGridView1.Columns(3).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DataGridView1.Columns(4).Width = 100

DataGridView1.Columns(4).HeaderText = "សិស្សសរុប"

DataGridView1.Columns(4).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

DataGridView1.Columns(5).Width = 100

DataGridView1.Columns(5).HeaderText = "ស្ថានភាព"

DataGridView1.Columns(5).DefaultCellStyle.Alignment = DataGridViewContentAlignment.MiddleCenter

For i As Integer = 0 To DataGridView1.Rows.Count - 1

If i Mod 2 = 1 Then

DataGridView1.Rows(i).DefaultCellStyle.BackColor = Color.FromArgb(254, 254, 254) ' Alternate row color

Else

DataGridView1.Rows(i).DefaultCellStyle.BackColor = Color.FromArgb(245, 250, 253)

End If

Next i

For Each col As DataGridViewColumn In DataGridView1.Columns

col.SortMode = DataGridViewColumnSortMode.NotSortable

Next

DataGridView1.ClearSelection()

End Sub

End Class

**18.ConnectionDB Class**

**19. User Class**

**20.Course Class**

**21.Dashboard Class**

**22.Payment Class**

**23.Register Class**

**24.Report Class**

**25.Room Class**

**26.Student Class**

**27.Subject Clas**

**28.Teacher Class**

**29.ThemeColor**