LAB-6

Course:

Internet Application Development(CIS-305L)

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Laboratory Module 6

Problem 1) Develop an asp.net page that displays a list of options with check boxes (Use CheckBoxList web control).

On clicking a button (web control) the page displays the selected options in a label control.

Problem 2) Develop a page that displays two text boxes and a button web control. The textboxes are used to capture number of rows and number of columns from user.

(a) On clicking button, generate a table with r rows and c columns. In each cell display row,col values.

(b) Optionally add features of border and image in each cell.

Problem 3) Develop a web form that records all page processing events in a list box as shown below.

.aspx code (part-1):

```
<%@ Page Language="vb" AutoEventWireup="false" Codefile="Default.aspx.vb" Inherits="_Default" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>CheckBoxList Demo</title>
    <link rel="stylesheet" href="styles.css" />
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <h1>CheckBoxList Demo</h1>
            <p>Please select your preferred colors:</p>
            <asp:CheckBoxList ID="cblColors" runat="server">
                <asp:ListItem Text="Red" Value="Red" />
                <asp:ListItem Text="Blue" Value="Blue" />
                <asp:ListItem Text="Green" Value="Green" />
                <asp:ListItem Text="Yellow" Value="Yellow" />
            </asp:CheckBoxList>
            <br />
            <asp:Button ID="btnSubmit" runat="server" Text="Submit" OnClick="btnSubmit_Click" />
            <br />
            <br />
            <asp:Label ID="lblResult" runat="server"></asp:Label>
        </div>
    </form>
</body>
</html>
```

.aspx.vb code(part-1):

```vb
Partial Class _Default
    Inherits System.Web.UI.Page

    Protected Sub btnSubmit_Click(sender As Object, e As EventArgs)
        Dim selectedColors As New List(Of String)

        For Each item As ListItem In cblColors.Items
            If item.Selected Then
                selectedColors.Add(item.Text)
            End If
        Next

        If selectedColors.Count = 0 Then
            lblResult.Text = "No colors selected."
        Else
            lblResult.Text = "Selected colors: " & String.Join(", ", selectedColors)
        End If
    End Sub
End Class
```

.aspx code (part-2):

```aspx
<%@ Page Language="vb" AutoEventWireup="false" CodeFile="Default2.aspx.vb" Inherits="_Default2" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
 <title></title>
 <link rel="stylesheet" href="styles1.css">
</head>
<body>
 <form id="form1" runat="server">
  <div>
    <asp:TextBox ID="txtRows" runat="server" placeholder="Enter number of rows"></asp:TextBox><br /><br />
    <asp:TextBox ID="txtCols" runat="server" placeholder="Enter number of columns"></asp:TextBox><br /><br />
    <asp:CheckBox ID="chkBorder" runat="server" Text="Add Border" /><br /><br />
    <asp:Button ID="cmdCreate" runat="server" Text="Create Table" OnClick="cmdCreate_Click" />
    <br /><br />
    <asp:Table ID="tbl" runat="server"></asp:Table>
  </div>
 </form>
</body>
</html>
```

.aspx.vb code (part-2):

```vb
Imports System.Web.UI.WebControls

Public Class _Default2
    Inherits Page

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load
        ' Configure the table's appearance on page load
        ' You can adjust appearance settings here if needed
    End Sub
```

```vb
    Protected Sub cmdCreate_Click(ByVal sender As Object, ByVal e As EventArgs)
        ' Reference controls using their IDs from the .aspx file
        Dim tbl As Table = CType(Me.FindControl("tbl"), Table) ' Access the table control using its ID
        Dim txtRows As TextBox = CType(Me.FindControl("txtRows"), TextBox) ' Access the txtRows TextBox using its
ID
        Dim txtCols As TextBox = CType(Me.FindControl("txtCols"), TextBox) ' Access the txtCols TextBox using its ID
        Dim chkBorder As CheckBox = CType(Me.FindControl("chkBorder"), CheckBox) ' Access the chkBorder
CheckBox using its ID

        ' Clear the table before generating a new one
        tbl.Controls.Clear()

        Dim row, col As Integer
        Dim rowCount As Integer = Integer.Parse(txtRows.Text)
        Dim colCount As Integer = Integer.Parse(txtCols.Text)

        For row = 0 To rowCount - 1
            ' Create a new TableRow object
            Dim rowNew As New TableRow()

            ' Put the TableRow in the Table
            tbl.Controls.Add(rowNew)

            For col = 0 To colCount - 1
                ' Create a new TableCell object
                Dim cellNew As New TableCell()

                ' Create a new Label object
                Dim lblNew As New Label()
                lblNew.Text = "Cell (" & row.ToString() & "," & col.ToString() & ") "

                ' Put the label and picture in the cell
                cellNew.Controls.Add(lblNew)

                ' Optionally adjust border style and width
                If chkBorder.Checked Then
                    cellNew.BorderStyle = BorderStyle.Inset
                    cellNew.BorderWidth = Unit.Pixel(5)
                End If

                ' Put the TableCell in the TableRow
                rowNew.Cells.Add(cellNew)
            Next
        Next
    End Sub
End Class
```

.aspx code (part-3):
```aspx
<%@ Page Language="VB" AutoEventWireup="true" CodeFile="Default3.aspx.vb" Inherits="_Default3" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <title>Event Tracker</title>
    <link rel="stylesheet" href="styles2.css">
</head>
<body>
```

```
    <form id="form1" runat="server">
        <h1>Event Tracker</h1>
        <p>Controls being monitored for change events:</p>
        <asp:TextBox ID="TextBox_text" runat="server" AutoPostBack="true"
OnTextChanged="OnTextChanged"></asp:TextBox><br /><br />
        <asp:CheckBox ID="CheckBox" runat="server" AutoPostBack="true"
OnCheckedChanged="OnTextChanged"></asp:CheckBox><br /><br />
        <asp:RadioButtonList ID="RadioButtons" runat="server" AutoPostBack="true"
OnSelectedIndexChanged="OnTextChanged">
            <asp:ListItem Text="Option 1" Value="1"></asp:ListItem>
            <asp:ListItem Text="Option 2" Value="2"></asp:ListItem>
        </asp:RadioButtonList>
        <br />
        <p>List of events:</p>
        <div class="list-box-container">
            <asp:ListBox size="20" ID="ListBox1" runat="server"></asp:ListBox>
        </div>
    </form>
</body>
</html>
```

.aspx.vb code (part-3):

```vb
Partial Class _Default3
    Inherits System.Web.UI.Page

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
        ' Check if the page is loading for the first time
        If Not Page.IsPostBack Then
            Dim ListBoxEvents As ListBox = CType(Page.FindControl("ListBox1"), ListBox)
            ListBoxEvents.Items.Add("<< Page Load Event >>")
        End If
    End Sub

    Protected Sub Page_PreRender(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.PreRender
        Dim ListBoxEvents As ListBox = CType(Page.FindControl("ListBox1"), ListBox)
        ListBoxEvents.Items.Add("<< Page PreRender Event >>")
    End Sub

    Protected Sub OnTextChanged(sender As Object, e As EventArgs)
        ' Cast the sender control to its specific type for clarity
        Dim ctrl As Control = CType(sender, Control)
        ' Add control ID + " Changed" event to the list box
        Dim ListBoxEvents As ListBox = CType(Page.FindControl("ListBox1"), ListBox)
        ListBoxEvents.Items.Add(ctrl.ID & " Changed")
    End Sub

    Protected Sub Button1_Click(ByVal sender As Object, ByVal e As System.EventArgs)
        Dim ListBoxEvents As ListBox = CType(Page.FindControl("ListBox1"), ListBox)
        ListBoxEvents.Items.Add("<< Button Click Event >>")
    End Sub
End Class
```

OUTPUTS:

CheckBoxList Demo

Please select your preferred colors:

☑ Red
☐ Blue
☐ Green
☐ Yellow

Submit

Selected colors: Red

3

3

☑ Add Border

Create Table

Cell (0,0)	Cell (0,1)	Cell (0,2)
Cell (1,0)	Cell (1,1)	Cell (1,2)
Cell (2,0)	Cell (2,1)	Cell (2,2)

Event Tracker

Controls being monitored for change events:

dfdg

☐

○
Option 1
○
Option 2

List of events:

```
<< Page Load Event >>
<< Page PreRender Event >>
TextBox_text Changed
<< Page PreRender Event >>
```