

Internet Application Development

Lab 06B

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Registration No: 03-3-1-058-2022

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Problem 1) Develop a page for storing and retrieving a value “43854” of a variable “W” using hidden form field? Is it possible to alter W at client end? Try to implement a code for altering W at client end?

CODE

DEFAULT.ASPX

```
<%@ 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>Hidden Field Example</title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <h2>Hidden Field with VB.NET</h2>

            <asp:HiddenField ID="HiddenW" runat="server" Value="43854" />

            <asp:Label ID="Label1" runat="server" Text=""></asp:Label><br /><br />

            <asp:Button ID="BtnSubmit" runat="server" Text="Submit" OnClick="BtnSubmit_Click" />

            <br /><br />

            <input type="button" value="Alter W to 99999" onclick="alterW()" />

            <script type="text/javascript">
                function alterW() {
                    document.getElementById('<%= HiddenW.ClientID %>').value = "99999";
                    alert("Hidden W changed to 99999 (client side)");
                }
            </script>
        </div>
    </form>
</body>
</html>
```

DEFAULT.ASPX.VB

Imports System

Partial Class _Default

Inherits System.Web.UI.Page

Protected Sub Page_Load(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load

If Not IsPostBack Then

Label1.Text = "Initial value of W: " & HiddenW.Value

End If

End Sub

```
Protected Sub BtnSubmit_Click(ByVal sender As Object, ByVal e As EventArgs)
    Dim wValue As String = HiddenW.Value
    Label1.Text = "Submitted value of W: " & wValue
End Sub
End Class
```

Problem 2) Develop a web form having a list box filled with customer names. Fill customer names in text and customer id in value properties of list items. Try to transfer the selection of list item made by user to another page using query string. Add a few more web controls on web form. Extend your code to transfer all selected/entered values to a second web form using query string.

CUSTOMERFORM.ASPX

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

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Customer Selection Form</title>
</head>
<body>
    <form id="form1" runat="server">
        <h2>Select Customer Info</h2>

        <asp:ListBox ID="lstCustomers" runat="server" SelectionMode="Single">
        </asp:ListBox>
        <br /><br />

        Email:
        <asp:TextBox ID="txtEmail" runat="server"></asp:TextBox>
        <br /><br />

        Gender:
        <asp:RadioButtonList ID="rblGender" runat="server">
            <asp:ListItem Text="Male" Value="Male"></asp:ListItem>
            <asp:ListItem Text="Female" Value="Female"></asp:ListItem>
        </asp:RadioButtonList>
        <br />

        <asp:Button ID="btnSubmit" runat="server" Text="Submit" OnClick="btnSubmit_Click" />
    </form>
</body>
</html>
```

CUSTOMERFORM.ASPX.VB

```
Partial Class CustomerForm
    Inherits System.Web.UI.Page
```

```
    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles
Me.Load
```

```
        If Not IsPostBack Then
            ' Add customers to ListBox
            lstCustomers.Items.Add(New ListItem("Ali", "C101"))
            lstCustomers.Items.Add(New ListItem("Sara", "C102"))
            lstCustomers.Items.Add(New ListItem("Zain", "C103"))
        End If
    End Sub
```

```
    Protected Sub btnSubmit_Click(ByVal sender As Object, ByVal e As EventArgs)
```

```
        If lstCustomers.SelectedItem IsNot Nothing Then
            Dim customerName As String = lstCustomers.SelectedItem.Text
            Dim customerID As String = lstCustomers.SelectedItem.Value
            Dim email As String = txtEmail.Text
            Dim gender As String = rblGender.SelectedValue

            ' Build query string
            Dim url As String = "CustomerDetails.aspx?name=" & Server.UrlEncode(customerName)
            &
            & "&id=" & Server.UrlEncode(customerID) &
            & "&email=" & Server.UrlEncode(email) &
            & "&gender=" & Server.UrlEncode(gender)
```

```

        Response.Redirect(url)
    End If
End Sub
End Class

```

CustomerDetails.aspx

```

<%@ Page Language="VB" AutoEventWireup="false" CodeFile="CustomerDetails.aspx.vb"
Inherits="CustomerDetails" %>

```

```

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Customer Details</title>
</head>
<body>
    <form id="form1" runat="server">
        <h2>Received Customer Details</h2>

        <asp:Label ID="lblName" runat="server" Text=""></asp:Label><br />
        <asp:Label ID="lblID" runat="server" Text=""></asp:Label><br />
        <asp:Label ID="lblEmail" runat="server" Text=""></asp:Label><br />
        <asp:Label ID="lblGender" runat="server" Text=""></asp:Label><br />
    </form>
</body>
</html>

```

CustomerDetails.aspx.vb

```

Partial Class CustomerDetails
    Inherits System.Web.UI.Page

```

```

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles
Me.Load
        Dim name As String = Request.QueryString("name")
        Dim id As String = Request.QueryString("id")
        Dim email As String = Request.QueryString("email")
        Dim gender As String = Request.QueryString("gender")

        lblName.Text = "Customer Name: " & Server.UrlDecode(name)
        lblID.Text = "Customer ID: " & Server.UrlDecode(id)
        lblEmail.Text = "Email: " & Server.UrlDecode(email)
        lblGender.Text = "Gender: " & Server.UrlDecode(gender)
    End Sub
End Class

```

Problem 3) Develop a web form that implements the following scenario:

Upon first time access of page by customer a cookie is stored in user browser (make it persistent). Within the cookie store customer name and date and time values. When the customer revisits the same page and the cookie is found, retrieve the stored values and display on the page.

Unknown Customer

Name:

Cookie Created.

New Customer: Mr. Abc Xyz

Name:

Cookie Found.

Welcome, Mr. Abc Xyz

Name:

Note: In real world applications we never assign the button name as “Create Cookie”

CODE

VisitPage.aspx

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

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Customer Visit Tracking</title>
</head>
<body>
    <form id="form1" runat="server">
        <h2>Customer Visit Tracking with Cookies</h2>

        <asp:Label ID="lblMessage" runat="server" Font-Size="Large"></asp:Label><br /><br />

        Enter your name:
        <asp:TextBox ID="txtName" runat="server"></asp:TextBox><br /><br />

        <asp:Button ID="btnSubmit" runat="server" Text="Save Cookie" OnClick="btnSubmit_Click"
/>
    </form>
</body>
</html>
```

VisitPage.aspx.vb

```
Partial Class VisitPage
    Inherits System.Web.UI.Page

    Protected Sub Page_Load(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load
        If Not IsPostBack Then
            ' Check if cookie exists
            Dim userCookie As HttpCookie = Request.Cookies("CustomerInfo")

            If userCookie IsNot Nothing Then
                Dim name As String = userCookie("Name")
                Dim visitTime As String = userCookie("VisitTime")

                lblMessage.Text = "Welcome back, " & name & "!<br/>Your last visit was on: " &
visitTime
            Else
                lblMessage.Text = "Hello, new visitor! Please enter your name."
            End If
        End If
    End Sub

    Protected Sub btnSubmit_Click(ByVal sender As Object, ByVal e As EventArgs)
        Dim customerName As String = txtName.Text
        Dim currentTime As String = DateTime.Now.ToString()

        ' Create and set cookie
        Dim cookie As New HttpCookie("CustomerInfo")
        cookie("Name") = customerName
        cookie("VisitTime") = currentTime

        ' Make it persistent (e.g., 1 year)
        cookie.Expires = DateTime.Now.AddYears(1)

        Response.Cookies.Add(cookie)

        lblMessage.Text = "Thank you, " & customerName & "! Your visit has been recorded."
    End Sub
```

End Class

