

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?

Solution:

Default.asp:

```
<%@ 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>
```

```
  <style>
```

```
    body {
```

```
      font-family: Verdana;
```

```
      background-color: #e0f7fa;
```

```
      padding: 20px;
```

```
    }
```

```
  .main-box {
```

```
    background-color: #ffffff;
```

```
    border: 1px solid #cccccc;
```

```
    padding: 20px;
```

```
    width: 300px;
```

```
    margin: 50px auto;
```

```
    text-align: center;
```

```
    border-radius: 5px;
```

```
    }  
    h2 {  
        font-size: 20px;  
        color: #333333;  
    }  
    .btn {  
        padding: 8px 16px;  
        font-size: 14px;  
        background-color: #4CAF50;  
        color: white;  
        border: none;  
        cursor: pointer;  
        margin-top: 10px;  
    }  
    .btn:hover {  
        background-color: #45a049;  
    }  
    .result-label {  
        margin-top: 15px;  
        display: block;  
        color: #000;  
        font-weight: bold;  
    }  
    </style>  
</head>  
<body>
```

```
<form id="form1" runat="server">
  <div class="main-box">
    <h2>Store and Retrieve Value</h2>
    <asp:HiddenField ID="hiddenW" runat="server" Value="43854" />
    <asp:Button ID="btnRetrieve" runat="server" Text="Show W" CssClass="btn"
OnClick="btnRetrieve_Click" />
    <asp:Label ID="lblResult" runat="server" CssClass="result-label" />
    <script type="text/javascript">
      document.getElementById('<%= hiddenW.ClientID %>').value = "99999";
    </script>
  </div>
</form>
</body>
</html>
```

Default.aspx.vb:

Partial Class _Default

Inherits System.Web.UI.Page

Protected Sub BtnRetrieve_Click(sender As Object, e As EventArgs)

Dim W As String = hiddenW.Value

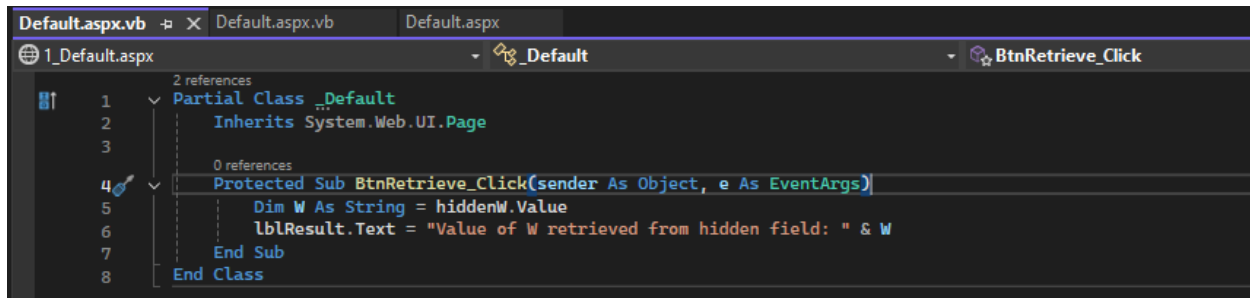
lblResult.Text = "Value of W retrieved from hidden field: " & W

End Sub

End Class

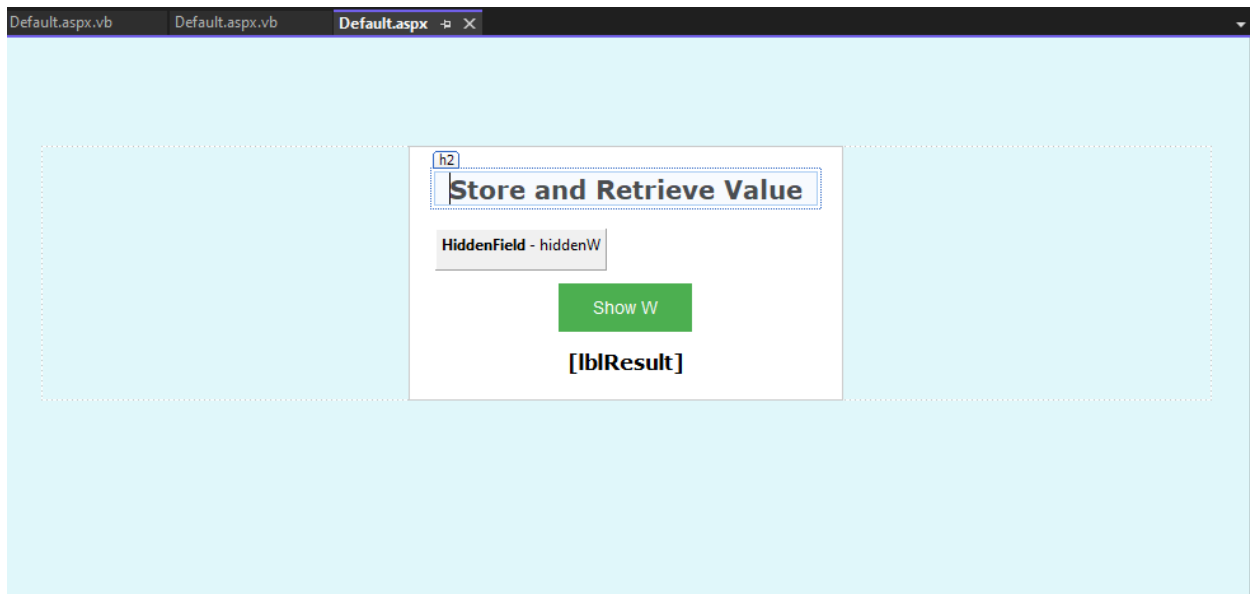
Code Snippets:

```
Default.aspx.vb | Default.aspx.vb | Default.aspx - X
1  <!-- Page Language="VB" AutoEventWireup="false" CodeFile="Default.aspx.vb" Inherits="_Default" -->
2
3  <!DOCTYPE html>
4  <html xmlns="http://www.w3.org/1999/xhtml">
5  <head runat="server">
6      <title>Hidden Field Example</title>
7      <style>
8          body {
9              font-family: Verdana;
10             background-color: #e0f7fa;
11             padding: 20px;
12         }
13
14         .main-box {
15             background-color: #ffffff;
16             border: 1px solid #cccccc;
17             padding: 20px;
18             width: 300px;
19             margin: 50px auto;
20             text-align: center;
21             border-radius: 5px;
22         }
23
24         h2 {
25             font-size: 20px;
26             color: #333333;
27         }
28
29         .btn {
30             padding: 8px 16px;
31             font-size: 14px;
32             background-color: #4CAF50;
33             color: white;
34             border: none;
35             cursor: pointer;
36             margin-top: 10px;
37         }
38
39         .btn:hover {
40             background-color: #45a049;
41         }
42
43         .result-label {
44             margin-top: 15px;
45             display: block;
46             color: #000;
47             font-weight: bold;
48         }
49     </style>
50 </head>
51 <body>
52     <form id="form1" runat="server">
53         <div class="main-box">
54             <h2>Store and Retrieve Value</h2>
55             <asp:HiddenField ID="hiddenW" runat="server" Value="43854" />
56             <asp:Button ID="btnRetrieve" runat="server" Text="Show W" CssClass="btn" OnClick="btnRetrieve_Click" />
57             <asp:Label ID="lblResult" runat="server" CssClass="result-label" />
58             <script type="text/javascript">
59                 document.getElementById('<%= hiddenW.ClientID %>').value = "99999";
60             </script>
61         </div>
62     </form>
63 </body>
64 </html>
```

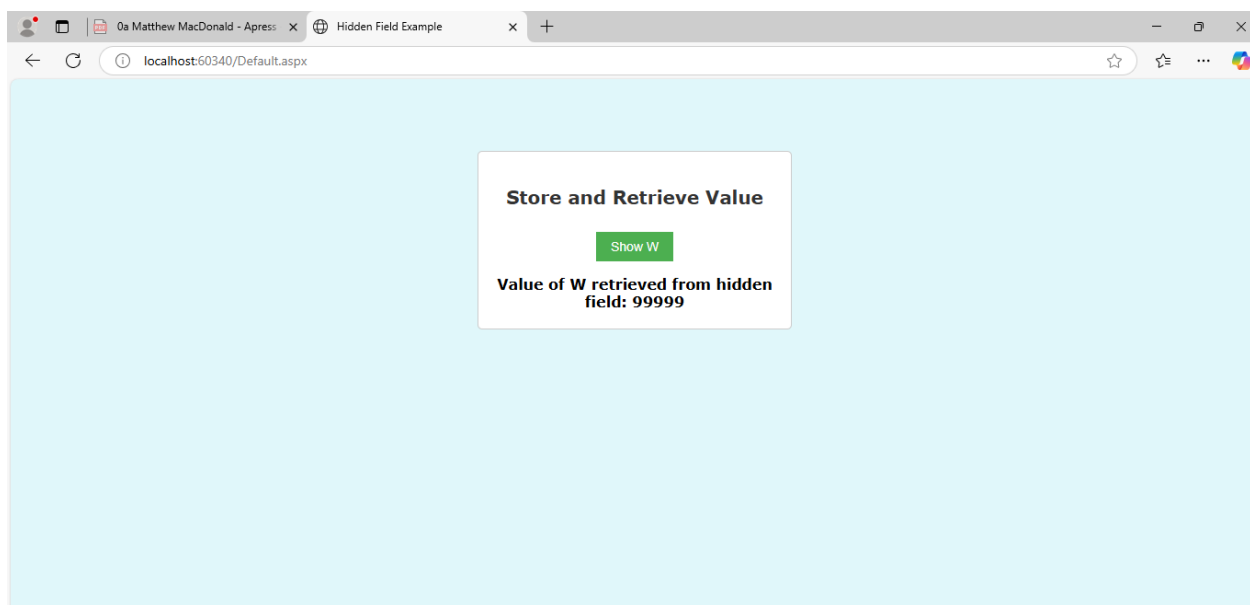


```
1 Partial Class _Default
2     Inherits System.Web.UI.Page
3
4     Protected Sub BtnRetrieve_Click(sender As Object, e As EventArgs)
5         Dim W As String = hiddenW.Value
6         lblResult.Text = "Value of W retrieved from hidden field: " & W
7     End Sub
8 End Class
```

Output:



Opening File in the browser:



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.

Solution:

CustomerForm.asp:

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

    <title>Customer Selection</title>

</head>

<body>

    <form id="form1" runat="server">

        <div style="font-family: Arial; padding: 20px;">

            <h2>Select a Customer</h2>

            <asp:ListBox ID="lstCustomers" runat="server" SelectionMode="Single" Width="200px"
/>

            <br /><br />

            <asp:Label ID="lblEmail" runat="server" Text="Enter Email: " />

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

            <br /><br />

            <asp:Label ID="lblSubscribe" runat="server" Text="Subscribe to Newsletter: " />
```

```
<asp:CheckBox ID="chkSubscribe" runat="server" />
<br /><br />

<asp:Button ID="btnSubmit" runat="server" Text="Submit" OnClick="btnSubmit_Click" />
</div>
</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

lstCustomers.Items.Add(New ListItem("Alice", "C001"))

lstCustomers.Items.Add(New ListItem("Bob", "C002"))

lstCustomers.Items.Add(New ListItem("Charlie", "C003"))

End If

End Sub

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

If lstCustomers.SelectedIndex = -1 Then

' Handle no selection

Exit Sub

End If

```
Dim customerName As String = lstCustomers.SelectedItem.Text
```

```
Dim customerID As String = lstCustomers.SelectedItem.Value
```

```
Dim email As String = txtEmail.Text
```

```
Dim subscribed As String = chkSubscribe.Checked.ToString()
```

```
Dim url As String = "CustomerResult.aspx?"
```

```
url &= "name=" & Server.UrlEncode(customerName)
```

```
url &= "&id=" & Server.UrlEncode(customerID)
```

```
url &= "&email=" & Server.UrlEncode(email)
```

```
url &= "&subscribed=" & subscribed
```

```
Response.Redirect(url)
```

```
End Sub
```

```
End Class
```

CustomerResult.asp:

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

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
    <title>Customer Details</title>
```

```
</head>
```

```
<body>
```

```
<form id="form1" runat="server">
    <div style="font-family: Arial; padding: 20px;">
        <h2>Customer Details Received via Query String</h2>
        <asp:Label ID="lblOutput" runat="server" />
    </div>
</form>
</body>
</html>
```

CustomerResult.aspx.vb:

Partial Class CustomerResult

Inherits System.Web.UI.Page

Protected Sub Page_Load(ByVal sender As Object, ByVal e As 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 subscribed As String = Request.QueryString("subscribed")

lblOutput.Text = "Customer Name: " & name & "
"

lblOutput.Text &= "Customer ID: " & id & "
"

lblOutput.Text &= "Email: " & email & "
"

lblOutput.Text &= "Subscribed: " & subscribed

End Sub

End Class

Code Snippets:

```

CustomerResult.aspx.vb  X CustomerForm.aspx.vb  CustomerResult.aspx.vb  CustomerForm.aspx.vb  CustomerForm.aspx  X
1  Page Language="VB" AutoEventWireup="true" CodeFile="CustomerForm.aspx.vb" Inherits="CustomerForm"
2
3  <!DOCTYPE html>
4  <html xmlns="http://www.w3.org/1999/xhtml">
5  <head>
6  <title>Customer Selection</title>
7  </head>
8  <body>
9  <form id="form1" runat="server">
10  <div style="font-family: Arial; padding: 20px;">
11  <h2>Select a Customer</h2>
12  <asp:ListBox ID="lstCustomers" runat="server" SelectionMode="Single" Width="200px" />
13  <br /><br />
14  <asp:Label ID="lblEmail" runat="server" Text="Enter Email: " />
15  <asp:TextBox ID="txtEmail" runat="server" />
16  <br /><br />
17  <asp:Label ID="lblSubscribe" runat="server" Text="Subscribe to Newsletter: " />
18  <asp:CheckBox ID="chkSubscribe" runat="server" />
19  <br /><br />
20  <asp:Button ID="btnSubmit" runat="server" Text="Submit" OnClick="btnSubmit_Click" />
21  </div>
22  </form>
23  </body>
24  </html>
25
26
27
28

```

```

CustomerResult.aspx.vb  CustomerForm.aspx.vb  X CustomerResult.aspx.vb  CustomerForm.aspx.vb  CustomerForm.aspx
1_CustomerForm.aspx  CustomerForm  btnSubmit_Click
2 references
1  Partial Class CustomerForm
2  Inherits System.Web.UI.Page
3
4  0 references
5  Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Load
6  If Not IsPostBack Then
7  lstCustomers.Items.Add(New ListItem("Alice", "C001"))
8  lstCustomers.Items.Add(New ListItem("Bob", "C002"))
9  lstCustomers.Items.Add(New ListItem("Charlie", "C003"))
10 End If
11 End Sub
12
13 0 references
14 Protected Sub btnSubmit_Click(ByVal sender As Object, ByVal e As EventArgs)
15 If lstCustomers.SelectedIndex = -1 Then
16 Exit Sub
17 End If
18
19 Dim customerName As String = lstCustomers.SelectedItem.Text
20 Dim customerID As String = lstCustomers.SelectedItem.Value
21 Dim email As String = txtEmail.Text
22 Dim subscribed As String = chkSubscribe.Checked.ToString()
23
24 Dim url As String = "CustomerResult.aspx?"
25 url &= "name=" & Server.UrlEncode(customerName)
26 url &= "&id=" & Server.UrlEncode(customerID)
27 url &= "&email=" & Server.UrlEncode(email)
28 url &= "&subscribed=" & subscribed
29
30 Response.Redirect(url)
31 End Sub
32 End Class
33

```

```
CustomerResult.aspx.vb  X CustomerForm.aspx.vb* CustomerForm.aspx.vb CustomerForm.aspx CustomerResult.aspx  X
1  <%@ Page Language="VB" AutoEventWireup="true" CodeFile="CustomerResult.aspx.vb" Inherits="CustomerResult" %>
2
3  <!DOCTYPE html>
4  <html xmlns="http://www.w3.org/1999/xhtml">
5  <head>
6  <title>Customer Details</title>
7  </head>
8  <body>
9  <form id="form1" runat="server">
10     <div style="font-family: Arial; padding: 20px;">
11         <h2>Customer Details Received via Query String</h2>
12         <asp:Label ID="lblOutput" runat="server" />
13     </div>
14 </form>
15 </body>
16 </html>
17
```

```
CustomerResult.aspx.vb  X CustomerForm.aspx.vb* CustomerForm.aspx.vb CustomerForm.aspx CustomerResult.aspx
2_CustomerResult.aspx  CustomerResult  Profile
2 references
1  Partial Class CustomerResult
2      Inherits System.Web.UI.Page
3
4  0 references
5  Protected Sub Page_Load(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load
6      Dim name As String = Request.QueryString("name")
7      Dim id As String = Request.QueryString("id")
8      Dim email As String = Request.QueryString("email")
9      Dim subscribed As String = Request.QueryString("subscribed")
10
11      lblOutput.Text = "Customer Name: " & name & "<br />"
12      lblOutput.Text &= "Customer ID: " & id & "<br />"
13      lblOutput.Text &= "Email: " & email & "<br />"
14      lblOutput.Text &= "Subscribed: " & subscribed
15  End Sub
16 End Class
```

Output:

CustomerResult.aspx.vb X CustomerForm.aspx.vb* CustomerForm.aspx.vb CustomerForm.aspx X CustomerResult.aspx

div

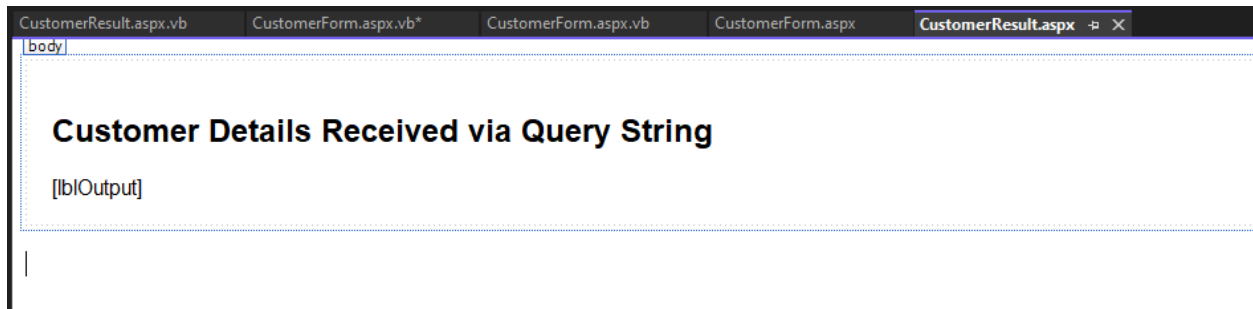
Select a Customer

Unbound

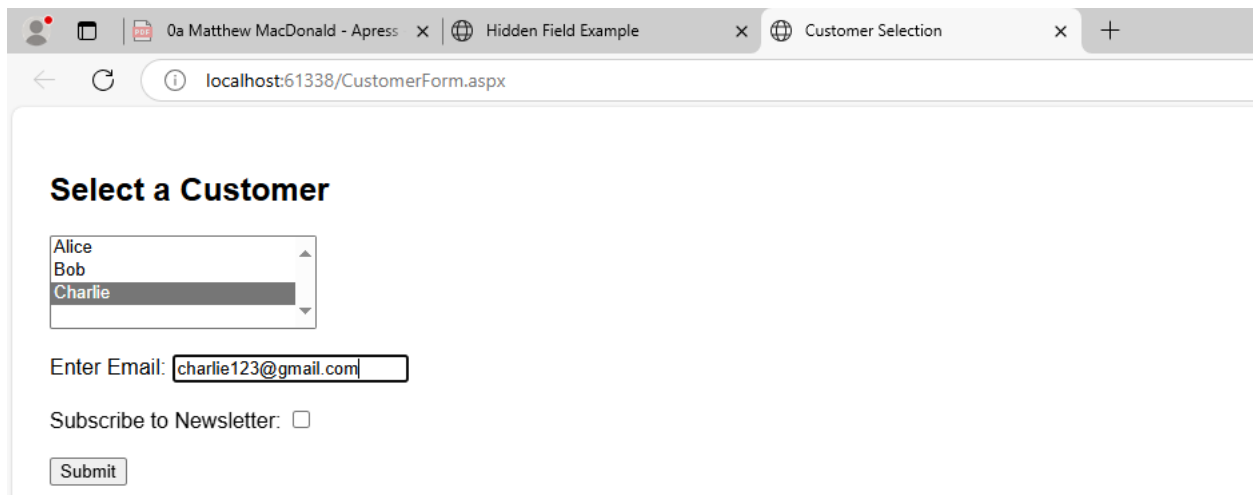
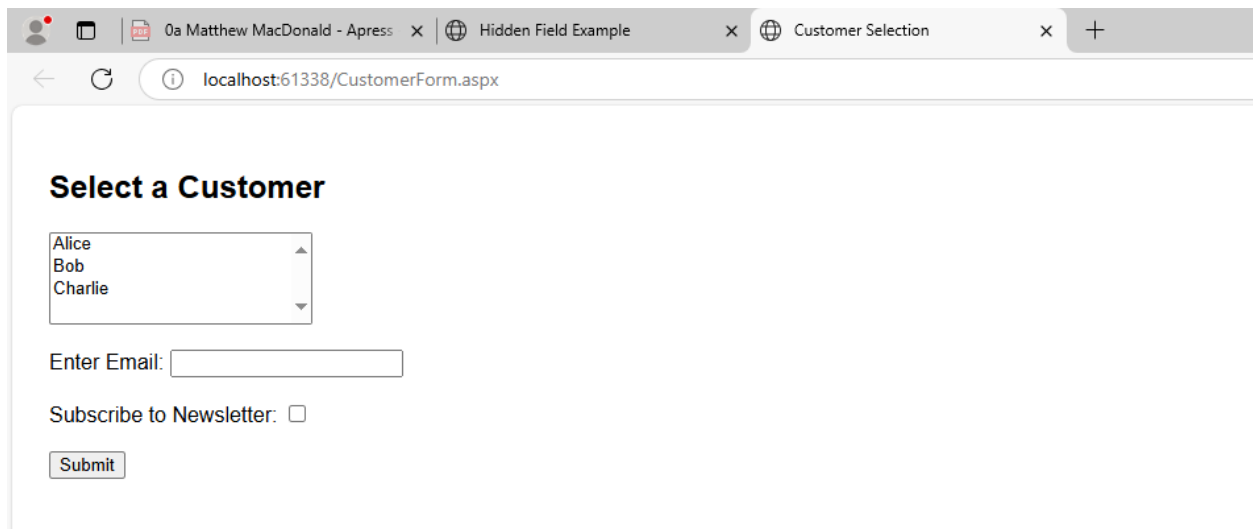
Enter Email:

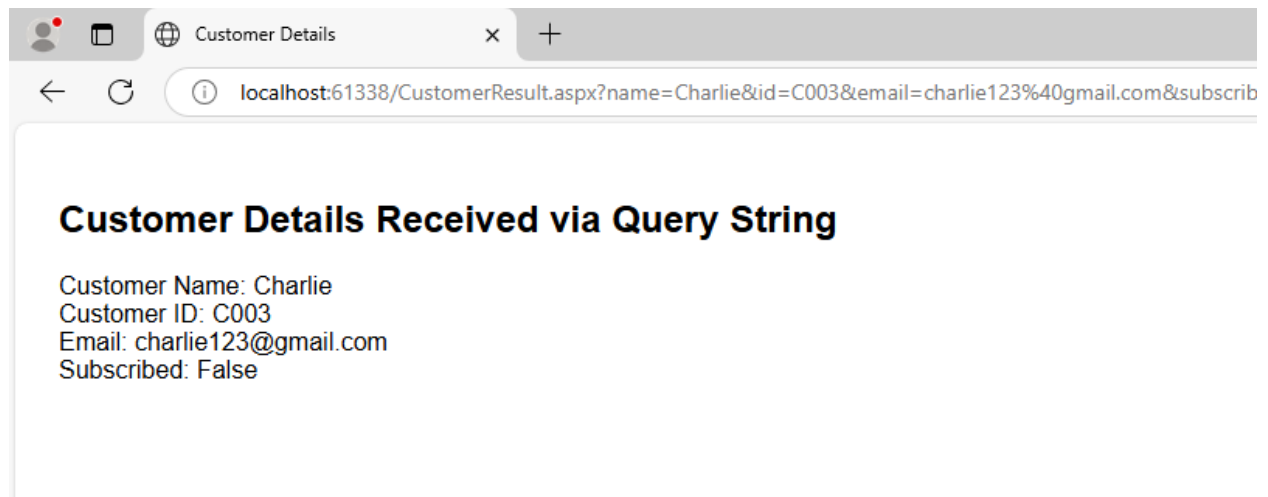
Subscribe to Newsletter: ☐ [chkSubscribe]

Submit



Opening in the Browser:





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.

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

Solution:

CustomerCookie.aspx:

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

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head runat="server">
```

```
    <title>Customer Cookie Example</title>
```

```
</head>
```

```
<body>
```

```
    <form id="form1" runat="server">
```

```
        <asp:Label ID="lblMessage" runat="server"
```

```
        BackColor="#FFFFCC"
        BorderColor="Black"
        BorderStyle="Solid"
        BorderWidth="1px"
        Width="500px"
        Height="100px">
</asp:Label>
<br /><br />
Name:
<asp:TextBox ID="txtName" runat="server" Width="200px" />
<asp:Button ID="btnSubmit" runat="server" Text="Submit" OnClick="btnSubmit_Click" />
</form>
</body>
</html>
```

CustomerCookie.aspx.vb:

Partial Class CustomerCookie

Inherits System.Web.UI.Page

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

If Not IsPostBack Then

Dim cookie As HttpCookie = Request.Cookies("CustomerInfo")

If cookie Is Nothing Then

lblMessage.Text = "Welcome, new visitor!"

Else

```
Dim name As String = cookie("Name")
```

```
Dim visitTime As String = cookie("DateTime")
```

```
lblMessage.Text = "<b>Welcome back, " & name & "!</b><br /><br />" &
```

```
    "Your last visit was on: " & visitTime
```

```
End If
```

```
End If
```

```
End Sub
```

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

```
    Dim name As String = txtName.Text.Trim()
```

```
    If name <> "" Then
```

```
        Dim cookie As New HttpCookie("CustomerInfo")
```

```
        cookie("Name") = name
```

```
        cookie("DateTime") = DateTime.Now.ToString()
```

```
        cookie.Expires = DateTime.Now.AddYears(1)
```

```
        Response.Cookies.Add(cookie)
```

```
        lblMessage.Text = "<b>Cookie Created.</b><br /><br />" &
```

```
            "Hello, " & name & "!<br />" &
```

```
            "Visit time stored: " & cookie("DateTime")
```

```
    Else
```

```
        lblMessage.Text = "<b>Please enter your name.</b>"
```

```
    End If
```

```
End Sub
```

```
End Class
```

```

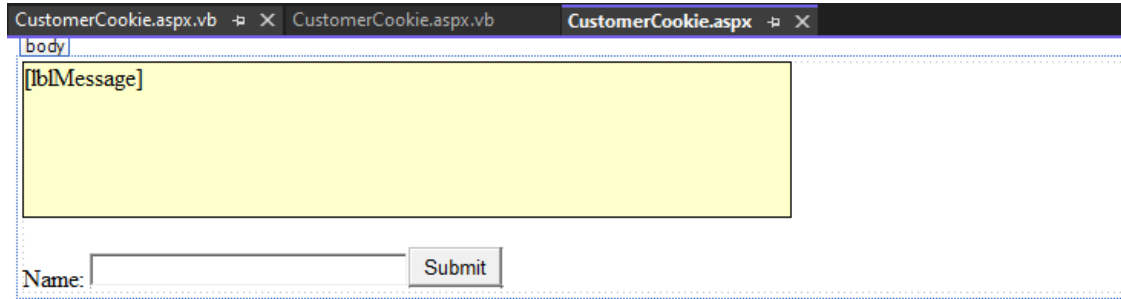
CustomerCookie.aspx.vb    CustomerCookie.aspx.vb    CustomerCookie.aspx X
1  <%@ Page Language="VB" AutoEventWireup="false" CodeFile="CustomerCookie.aspx.vb" Inherits="CustomerCookie" %>
2
3  <!DOCTYPE html>
4  <html xmlns="http://www.w3.org/1999/xhtml">
5  <head runat="server">
6  <title>Customer Cookie Example</title>
7  </head>
8  <body>
9  <form id="form1" runat="server">
10 <asp:Label ID="lblMessage" runat="server"
11     BackColor="#FFFFCC"
12     BorderColor="Black"
13     BorderStyle="Solid"
14     BorderWidth="1px"
15     Width="500px"
16     Height="100px">
17 </asp:Label>
18 <br /><br />
19 Name:
20 <asp:TextBox ID="txtName" runat="server" Width="200px" />
21 <asp:Button ID="btnSubmit" runat="server" Text="Submit" OnClick="btnSubmit_Click" />
22 </form>
23 </body>
24 </html>

```

```

CustomerCookie.aspx.vb X CustomerCookie.aspx.vb    CustomerCookie.aspx
1_CustomerCookie.aspx    CustomerCookie    Profile
2 references
1  Partial Class CustomerCookie
2  Inherits System.Web.UI.Page
3
4  0 references
5  Protected Sub Page_Load(ByVal sender As Object, ByVal e As EventArgs) Handles Me.Load
6  If Not IsPostBack Then
7  Dim cookie As HttpCookie = Request.Cookies("CustomerInfo")
8
9  If cookie Is Nothing Then
10 lblMessage.Text = "<b>Welcome, new visitor!</b>"
11 Else
12 Dim name As String = cookie("Name")
13 Dim visitTime As String = cookie("DateTime")
14 lblMessage.Text = "<b>Welcome back, " & name & "!</b><br /><br />" &
15 "Your last visit was on: " & visitTime
16 End If
17 End If
18 End Sub
19
20 0 references
21 Protected Sub btnSubmit_Click(ByVal sender As Object, ByVal e As EventArgs)
22 Dim name As String = txtName.Text.Trim()
23
24 If name <> "" Then
25 Dim cookie As New HttpCookie("CustomerInfo")
26 cookie("Name") = name
27 cookie("DateTime") = DateTime.Now.ToString()
28 cookie.Expires = DateTime.Now.AddYears(1)
29 Response.Cookies.Add(cookie)
30
31 lblMessage.Text = "<b>Cookie Created.</b><br /><br />" &
32 "Hello, " & name & "!<br />" &
33 "Visit time stored: " & cookie("DateTime")
34 Else
35 lblMessage.Text = "<b>Please enter your name.</b>"
36 End If
37 End Sub

```

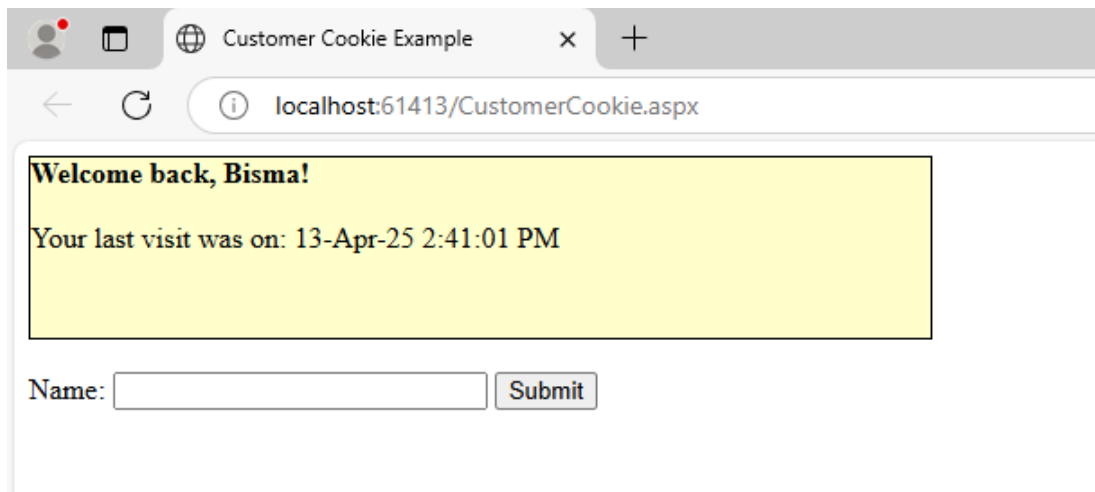
Output:

CustomerCookie.aspx.vb CustomerCookie.aspx.vb **CustomerCookie.aspx**

body

[!b!Message]

Name:

Opening In the browser:

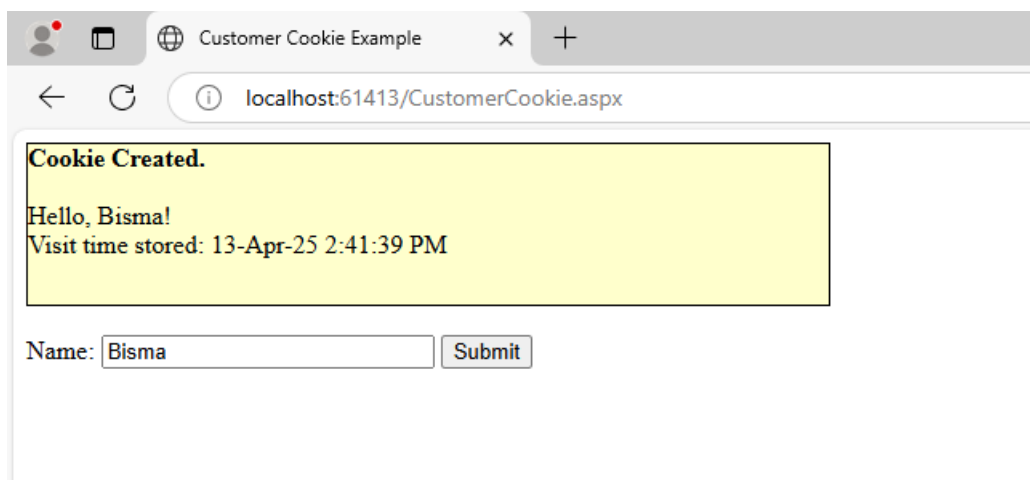
Customer Cookie Example

localhost:61413/CustomerCookie.aspx

Welcome back, Bisma!

Your last visit was on: 13-Apr-25 2:41:01 PM

Name:



Customer Cookie Example

localhost:61413/CustomerCookie.aspx

Cookie Created.

Hello, Bisma!

Visit time stored: 13-Apr-25 2:41:39 PM

Name: