AIM: Design Web Applications using Client Side Session Management.

WAP to implement Client side state management techniques and Server side state management techniques on the form design attached with the assignment.

A) **SESSION MANAGEMENT:**

SOURCE CODE:

SM.aspx:

```
<@ Page Language="C#" AutoEventWireup="true" CodeFile="SM.aspx.cs" Inherits="SM" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <div>
    Name: <asp:TextBox ID="name" runat="server"></asp:TextBox>
    <br />
    Age: <asp:TextBox ID="age" runat="server"></asp:TextBox>
    Branch: <asp:TextBox ID="branch" runat="server"></asp:TextBox>
    <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Submit" />
  </div>
  </form>
</body>
</html>
SM.aspx.cs:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class SM: System.Web.UI.Page
  protected void Page_Load(object sender, EventArgs e)
```

{

SM2.aspx.cs:

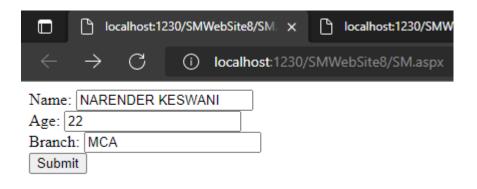
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

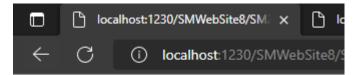
public partial class SM2 : System.Web.UI.Page
```

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```
protected void Page_Load(object sender, EventArgs e)
{
   if (Session["name"] != null)
   {
      name.Text = Session["name"].ToString();
   }
   if (Session["age"] != null)
   {
      age.Text = Session["age"].ToString();
   }
   if (Session["branch"] != null)
   {
      branch.Text = Session["branch"].ToString();
   }
}
```

OUTPUT:





Name: NARENDER KESWANI

Age: 22 Branch: MCA

B) COOKIE:

SOURCE CODE:

```
Cookie.aspx:
```

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Cookie.aspx.cs" Inherits="Cookie" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
    Name: <asp:TextBox ID="name" runat="server"></asp:TextBox>
    <br />
    Age: <asp:TextBox ID="age" runat="server"></asp:TextBox>
    <br />
    Branch: <asp:TextBox ID="branch" runat="server"></asp:TextBox>
    <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Submit" />
  </div>
  </form>
</body>
</html>
Cookie.aspx.cs:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class Cookie: System.Web.UI.Page
{
  protected void Page_Load(object sender, EventArgs e)
```

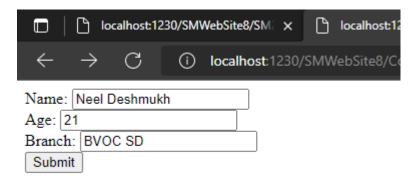
```
}
  protected void Button1_Click(object sender, EventArgs e)
    HttpCookie userInfo = new HttpCookie("userInfo");
    userInfo["name"] = name.Text;
    userInfo["age"] = age.Text;
    userInfo["branch"] = branch.Text;
    Response.Cookies.Add(userInfo);
    Response.Redirect("C2.aspx");
  }
}
C2.aspx:
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="C2.aspx.cs" Inherits="C2" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
 <div>
    Name: <asp:Label ID="name" runat="server"></asp:Label>
    Age: <asp:Label ID="age" runat="server"></asp:Label>
    Branch: <asp:Label ID="branch" runat="server"></asp:Label>
    <br />
  </div>
  </form>
</body>
</html>
C2.aspx.cs:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
```

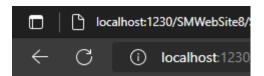
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```
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class C2 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        HttpCookie reqCookies = Request.Cookies["userInfo"];
        if (reqCookies != null)
        {
            name.Text = reqCookies["name"].ToString();
            age.Text = reqCookies["age"].ToString();
            branch.Text = reqCookies["branch"].ToString();
        }
    }
}
```

OUTPUT:





Name: Neel Deshmukh

Age: 21

Branch: BVOC SD

C) **QUERY STRINGS:**

SOURCE CODE:

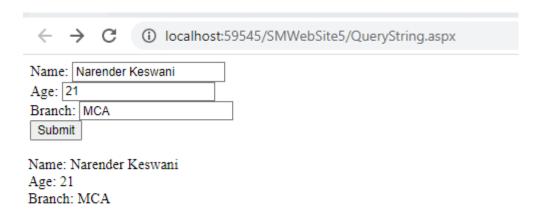
```
QueryString.aspx:
<@ Page Language="C#" AutoEventWireup="true" CodeFile="QueryString.aspx.cs"
Inherits="QueryString" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
    Name: <asp:TextBox ID="name" runat="server"></asp:TextBox>
    Age: <asp:TextBox ID="age" runat="server"></asp:TextBox>
    <br />
    Branch: <asp:TextBox ID="branch" runat="server"></asp:TextBox>
    <br />
    <asp:Button1D="Button1" runat="server" OnClick="Button1_Click" Text="Submit" />
  </div>
  </form>
</body>
</html>
QueryString.aspx.cs:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class QueryString: System.Web.UI.Page
  protected void Page_Load(object sender, EventArgs e)
  {
  }
```

```
protected void Button1_Click(object sender, EventArgs e)
  {
    Response.Redirect("QS2.aspx?name=" + name.Text + "&age=" + age.Text + "&branch=" +
branch.Text);
  }
}
QS2.aspx:
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="QS2.aspx.cs" Inherits="QS2" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
    Name: <asp:Label ID="name" runat="server"></asp:Label>
    Age: <asp:Label ID="age" runat="server"></asp:Label>
    <br />
    Branch: <asp:Label ID="branch" runat="server"></asp:Label>
    <br />
  </div>
  </form>
</body>
</html>
QS2.aspx.cs:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class QS2: System.Web.UI.Page
  protected void Page_Load(object sender, EventArgs e)
    string names = Request.QueryString["name"];
    string ages = Request.QueryString["age"];
    string branchs = Request.QueryString["branch"];
```

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```
name.Text = names;
age.Text = ages;
branch.Text = branchs;
}
```

OUTPUT:



D) ViewState:

SOURCE CODE:

ViewState.aspx:

```
ROLL NO: 24
   <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Submit" />
   </div>
  </form>
</body>
</html>
ViewState.aspx.cs:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class ViewState: System.Web.UI.Page
  protected void Page_Load(object sender, EventArgs e)
  protected void Button1 Click(object sender, EventArgs e)
   ViewState["name"] = name.Text;
   name.Text = "";
   ViewState["age"] = age.Text;
   age.Text = "";
   ViewState["branch"] = branch.Text;
   branch.Text = "";
  }
  protected void Button2_Click(object sender, EventArgs e)
   name.Text = ViewState["name"].ToString();
```

OUTPUT:

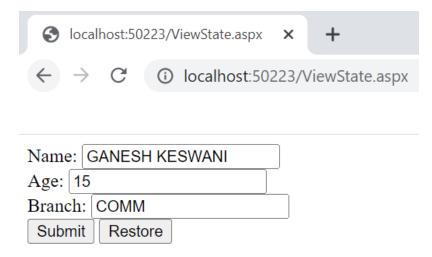
}

age.Text = ViewState["age"].ToString();

branch.Text = ViewState["branch"].ToString();

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E) HiddenFields:

SOURCE CODE:

HF.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="HF.aspx.cs" Inherits="HF" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
  <div>
   Name: <asp:TextBox ID="name" runat="server"></asp:TextBox>
   <br />
   Age: <asp:TextBox ID="age" runat="server"></asp:TextBox>
   <br />
   Branch: <asp:TextBox ID="branch" runat="server"></asp:TextBox>
   <asp:HiddenField ID="HiddenField1" runat="server"></asp:HiddenField>
   <br />
   <asp:HiddenField ID="HiddenField2" runat="server"></asp:HiddenField>
   <br />
   <asp:HiddenField ID="HiddenField3" runat="server"></asp:HiddenField>
```

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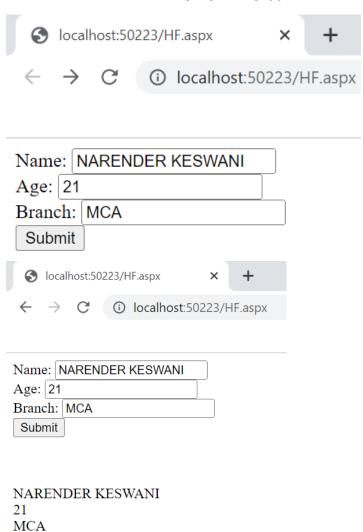
```
<br />
    <asp:Label ID="Label1" runat="server"></asp:Label>
    <br />
    <asp:Label ID="Label2" runat="server"></asp:Label>
    <asp:Label ID="Label3" runat="server"></asp:Label>
    <br />
  </div>
  </form>
</body>
</html>
HF.aspx.cs:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class HF: System.Web.UI.Page
  protected void Page_Load(object sender, EventArgs e)
  }
  protected void Button1_Click(object sender, EventArgs e)
    HiddenField1.Value = name.Text;
    HiddenField2.Value = age.Text;
    HiddenField3.Value = branch.Text;
    Label1.Text = HiddenField1.Value.ToString();
    Label2.Text = HiddenField2.Value.ToString();
    Label3.Text = HiddenField3.Value.ToString();
  }
}
```

OUTPUT:

FYMCA-B AWT LAB

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F) ApplicationState:

SOURCE CODE:

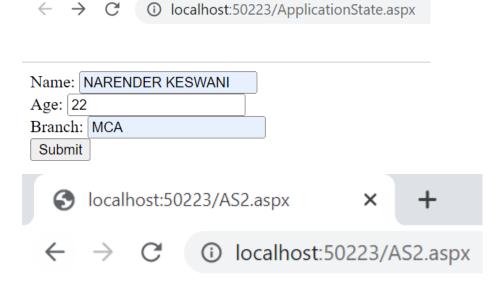
ApplicationState.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="ApplicationState.aspx.cs"
Inherits="ApplicationState" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
        <title></title>
</head>
```

```
<body>
  <form id="form1" runat="server">
   <div>
    Name: <asp:TextBox ID="name" runat="server"></asp:TextBox>
    <br />
    Age: <asp:TextBox ID="age" runat="server"></asp:TextBox>
    Branch: <asp:TextBox ID="branch" runat="server"></asp:TextBox>
    <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Submit" />
  </div>
  </form>
</body>
</html>
ApplicationState.aspx.cs:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class ApplicationState: System.Web.UI.Page
  protected void Page Load(object sender, EventArgs e)
  {
  protected void Button1_Click(object sender, EventArgs e)
    Application["name"] = name.Text;
    Application["age"] = age.Text;
    Application["branch"] = branch.Text;
    Response.Redirect("AS2.aspx");
  }
}
AS2.aspx:
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="AS2.aspx.cs" Inherits="AS2" %>
<!DOCTYPE html>
```

```
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
      <div>
    Name: <asp:Label ID="name" runat="server"></asp:Label>
    <br />
    Age: <asp:Label ID="age" runat="server"></asp:Label>
    Branch: <asp:Label ID="branch" runat="server"></asp:Label>
    <br />
  </div>
  </form>
</body>
</html>
AS2.aspx.cs:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class AS2: System.Web.UI.Page
  protected void Page_Load(object sender, EventArgs e)
    if (Application["name"] != null)
      name.Text = Application["name"].ToString();
    if (Application["age"] != null)
      age.Text = Application["age"].ToString();
    if (Application["branch"] != null)
```

FYMCA-B SEM-II DATE: 27/06/2022 AWT LAB PRACTICAL NO:08 ROLL NO: 24 { branch.Text = Application["branch"].ToString(); } } OUTPUT:



Name: NARENDER KESWANI

Age: 22

Branch: MCA

CONCLUSION:

From this practical, I have learned and implemented client & server-side session management in asp.net.