**11) Develop a web application in ASP.NET that showcases the use of**

**different state management techniques. Implement the following**

**functionalities:**

**- View State:**

**a) Create a web form with a set of controls (e.g., TextBox,**

**DropDownList).**

**b) Use View State to maintain the state of these controls across**

**postbacks.**

**c) Demonstrate how to store and retrieve values in/from the**

**View State.**

**- Session State:**

**a) Design a multi-page application with at least two pages.**

**b) Store user-specific information (e.g., username) in the**

**Session State when the user logs in on the first page.**

**c) Retrieve and display this information on the second page.**

**1)add->webform1:**

**<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="FirstPage.aspx.cs" Inherits="Session\_state.FirstPage" %>**

**<!DOCTYPE html>**

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

**<head runat="server">**

**<title>View State Example</title>**

**</head>**

**<body>**

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

**<div>**

**<asp:TextBox ID="txtName" runat="server"></asp:TextBox>**

**<asp:DropDownList ID="ddlOptions" runat="server">**

**<asp:ListItem Text="Option 1" Value="1"></asp:ListItem>**

**<asp:ListItem Text="Option 2" Value="2"></asp:ListItem>**

**<asp:ListItem Text="Option 3" Value="3"></asp:ListItem>**

**</asp:DropDownList>**

**<asp:Button ID="btnSubmit" runat="server" Text="Submit" OnClick="btnSubmit\_Click" />**

**</div>**

**</form>**

**</body>**

**</html>**

**2)webform1.aspx.cs:**

**using System;**

**using System.Collections.Generic;**

**using System.Linq;**

**using System.Web;**

**using System.Web.UI;**

**using System.Web.UI.WebControls;**

**using System.Xml.Linq;**

**namespace Session\_state**

**{**

**public partial class FirstPage : System.Web.UI.Page**

**{**

**protected void Page\_Load(object sender, EventArgs e)**

**{**

**if (!IsPostBack)**

**{**

**// Initialize controls or load data on the initial page load**

**}**

**}**

**protected void btnSubmit\_Click(object sender, EventArgs e)**

**{**

**// Store values in View State**

**ViewState["Name"] = txtName.Text;**

**ViewState["Option"] = ddlOptions.SelectedValue;**

**// Store username in Session State**

**Session["Username"] = txtName.Text;**

**// Redirect to the second page**

**Response.Redirect("SecondPage.aspx");**

**}**

**}**

**}**

**3)add->webform2:**

**<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="SecondPage.aspx.cs" Inherits="Session\_state.SecondPage" %>**

**<!DOCTYPE html>**

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

**<head runat="server">**

**<title>Session State Example - Second Page</title>**

**</head>**

**<body>**

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

**<div>**

**<asp:Label ID="lblUserInfo" runat="server" Text=""></asp:Label>**

**</div>**

**</form>**

**</body>**

**</html>**

**4)webform2.aspx.cs:**

**using System;**

**using System.Collections.Generic;**

**using System.Linq;**

**using System.Web;**

**using System.Web.UI;**

**using System.Web.UI.WebControls;**

**namespace Session\_state**

**{**

**public partial class SecondPage : System.Web.UI.Page**

**{**

**protected void Page\_Load(object sender, EventArgs e)**

**{**

**// Retrieve user-specific information from Session State**

**if (Session["Username"] != null)**

**{**

**string username = Session["Username"].ToString();**

**lblUserInfo.Text = $"Welcome, {username}!";**

**}**

**else**

**{**

**// Redirect to the login page or handle the absence of user information**

**}**

**}**

**}**

**}**