Ex. No. 9	**Web Application using ASP.NET**		
Date of Exercise	19.10.2016	Date of Upload	06.11.2016

Aim

To develop **Online Job Portal System** using C#.NET by integrating Database with proper authentication and various operations in context with defined application.

Description

- ASP.NET is the part of the .NET Framework and is a technology that allows for the dynamic creation of documents on a Web server when they are requested via HTTP.
- ASP.NET, as its name suggests, has been designed to be fully integrated with the .NET Framework programming in this technology used scripting languages such as VBScript or JScript ASP.NET pages that generate HTML content are often called *Web Forms*.

State Management in ASP.NET

- ASP.NET pages is effectively stateless.
- By default, no information is stored on the server between user requests.
- In short, information such as the state of controls on a Web is stored in a hidden viewstate field that is part of the page generated by the server and passed to the user.
- Triggering events that require server – side processing, like submitting form data, result in this information being sent back to the server; this is known as a postback operation

ASP.NET Web Forms

- Enclosing code in <script > elements, using two attributes on the opening < script > tag:

```
<script language="c#" runat="server" >
// Server-side code goes here.
</script >
```

- The runat= " server " attribute here is crucial because it instructs the ASP.NET engine to execute this code on the server rather than sending it to the client.
- If you omit the runat= " server " attribute, you are effectively providing client - side code,
- Use <script > elements to supply client - side script in languages such as JavaScript.

```
<script language="JavaScript" type="text/JavaScript" >
```

```
// Client-side code goes here.

</script>
```

- It is possible to create ASP.NET files in Visual Studio
- The .aspx files can also include code in blocks enclosed by < % and % > tags.
- The code is compiled, not interpreted. This results in far better performance.

The ASP.NET Code Model

- In ASP.NET, a combination of layout (HTML) code, ASP.NET controls, and C# code is used to generate the HTML that users see.
- The layout and ASP.NET code are stored in an .aspx file.
- The C# code that you add to customize the behavior of the form is contained either in the .aspx file or, in a separate .aspx.cs file, which is usually referred to as the " code - behind " file.

PROGRAM

LOGIN PAGE .CS

```csharp
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class LoginPage : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        Session.Abandon();
        Session.Clear();
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        string mail = TextBox1.Text;
        string pwd = TextBox2.Text;

        if (mail.Equals("admin") && pwd.Equals("admin"))
        {

            Response.Redirect("AdminPage.aspx");
        }
        else {
            try
            {
```

```csharp
            SqlConnection conn = new
SqlConnection(ConfigurationManager.ConnectionStrings["jobportalConnectionString"].Connect
ionString);
            conn.Open();

            SqlCommand insertCommand = new SqlCommand("SELECT * FROM  [userdetails]
WHERE mail=@mail AND pwd=@pwd", conn);
            insertCommand.Parameters.Add("@mail", SqlDbType.VarChar, 255,
"mail").Value = mail;
            insertCommand.Parameters.Add("@pwd", SqlDbType.VarChar, 255, "pwd").Value
= pwd;

            SqlDataReader queryResult = insertCommand.ExecuteReader();

            if (queryResult.HasRows)
            {

                Response.Redirect("ViewJobs.aspx");
            }
            conn.Close();
        }
        catch (Exception ex)
        {
            Label1.Text = "Please Report to admin: " + ex.Message;
            Label1.ForeColor = System.Drawing.Color.Red;
        }
    }



    }
}
```

FORGOT PASSWORD.CS

```csharp
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class LoginPage : System.Web.UI.Page
{
    static string mail, phone;
    protected void Page_Load(object sender, EventArgs e)
    {


    }
```

```csharp
    protected void ButtonEnterDetails_Click(object sender, EventArgs e)
    {
        try
        {

            SqlConnection conn = new
SqlConnection(ConfigurationManager.ConnectionStrings["jobportalConnectionString"].Connect
ionString);
            conn.Open();

             mail = TextBoxMail.Text;
             phone = TextBoxPhone.Text;

            SqlCommand insertCommand = new SqlCommand("SELECT * FROM  [userdetails] WHERE
mail=@mail AND phone=@phone", conn);
            insertCommand.Parameters.Add("@mail", SqlDbType.VarChar, 255, "mail").Value =
mail;
            insertCommand.Parameters.Add("@phone", SqlDbType.VarChar, 255, "phone").Value
= phone;

            SqlDataReader queryResult = insertCommand.ExecuteReader();

            if (queryResult.HasRows)
            {
                Label1.Text = "Data Validated Successfully :) \n Please Enter the New
Password";

                Label1.ForeColor = System.Drawing.Color.Green;
                checkformmailphone.Visible = false;
                checkformpwd.Visible = true;
                ButtonEnterDetails.Visible = false;
                ButtonChangePassword.Visible = true;
            }
            conn.Close();
        }
        catch (Exception ex) {
            Label1.Text = "Please Report to admin: " + ex.Message;
            Label1.ForeColor = System.Drawing.Color.Red;
        }
    }

    protected void ButtonChangePassword_Click(object sender, EventArgs e)
    {

        try
        {

            SqlConnection conn = new
SqlConnection(ConfigurationManager.ConnectionStrings["jobportalConnectionString"].Connect
ionString);
            conn.Open();

            string pwd = TextBoxPwd.Text;
            string repwd = TextBoxRePwd.Text;

            SqlCommand insertCommand = new SqlCommand("UPDATE [userdetails] SET pwd=@pwd
WHERE mail=@mail AND phone=@phone", conn);
            insertCommand.Parameters.Add("@mail", SqlDbType.VarChar, 255, "mail").Value =
mail;
```

```
            insertCommand.Parameters.Add("@phone", SqlDbType.VarChar, 255, "phone").Value
= phone;

            insertCommand.Parameters.Add("@pwd", SqlDbType.VarChar, 255, "pwd").Value =
pwd;

            int queryResult = insertCommand.ExecuteNonQuery();

            if (queryResult > 0)
            {
                WellFirst.Visible = false;
                panel.Visible = false;
                WellSecond.Visible = true;

            }
            else {
                Label1.Text = "Error Changing Password";
                Label1.ForeColor = System.Drawing.Color.Red;
            }
            conn.Close();
        }
        catch (Exception ex)
        {
            Label1.Text = "Please Report to admin: " + ex.Message;
            Label1.ForeColor = System.Drawing.Color.Red;
        }

    }
}
```

SIGN UP PAGES .CS

```
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class LoginPage : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

    }




    protected void ButtonEnterDetails_Click(object sender, EventArgs e)
    {
        try
        {
```

```csharp
            SqlConnection conn = new
SqlConnection(ConfigurationManager.ConnectionStrings["jobportalConnectionString"].Connect
ionString);
            conn.Open();
        string fname = TextBoxFname.Text;
        string lname = TextBoxLname.Text;
        string pwd = TextBoxPwd.Text;
        string repwd = TextBoxRePwd.Text;
        string prof = DropDownListProfession.SelectedValue;
        string mail = TextBoxMail.Text;
        string phone = TextBoxPhone.Text;
        string dob = TextBoxDob.Text;
        string gender = RadioButtonListGender.SelectedValue;

        SqlCommand insertCommand = new SqlCommand("INSERT INTO [userdetails]
(fname,lname,pwd,prof,mail,phone,dob,gender) VALUES
(@fname,@lname,@pwd,@prof,@mail,@phone,@dob,@gender)", conn);
        insertCommand.Parameters.Add("@fname", SqlDbType.VarChar, 255, "fname").Value
= fname;
        insertCommand.Parameters.Add("@lname", SqlDbType.VarChar, 255, "lname").Value
= lname;
        insertCommand.Parameters.Add("@pwd", SqlDbType.VarChar, 255, "pwd").Value =
pwd;
        insertCommand.Parameters.Add("@prof", SqlDbType.VarChar, 255, "prof").Value =
prof;
        insertCommand.Parameters.Add("@mail", SqlDbType.VarChar, 255, "mail").Value =
mail;
        insertCommand.Parameters.Add("@phone", SqlDbType.VarChar, 255, "phone").Value
= phone;
        insertCommand.Parameters.Add("@dob", SqlDbType.VarChar, 255, "dob").Value =
dob;
        insertCommand.Parameters.Add("@gender", SqlDbType.VarChar, 255,
"gender").Value = gender;
        int queryResult = insertCommand.ExecuteNonQuery();
        conn.Close();
        if (queryResult > 0) {
            Label1.Text = "Data Inserted Successfully :) ";
            Label1.ForeColor = System.Drawing.Color.Green;
        }
    }
    catch(Exception ex)
    {
        Label1.Text = "Please Refer to Error: " + ex.Message;
        Label1.ForeColor = System.Drawing.Color.Red;
    }


    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        Response.Redirect("LoginPage.aspx");
    }
}
```

EDIT PAGE .CS

```csharp
using System;
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class EditPage : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        try
        {
            SqlConnection conn = new
SqlConnection(ConfigurationManager.ConnectionStrings["ExampleConnectionString"].Connectio
nString);
            conn.Open();
        }
        catch
        {
        }
    }
    protected void Button2_Click(object sender, EventArgs e)
    {
        try
        {
            SqlConnection conn = new
SqlConnection(ConfigurationManager.ConnectionStrings["jobportalConnectionString"].Connect
ionString);
            conn.Open();
            SqlCommand insertCommand = new SqlCommand("select * from [userdetails]",
conn);
            SqlDataReader queryResult = insertCommand.ExecuteReader();


            GridView1.DataBind();


            conn.Close();
        }
        catch
        {
            Label3.Text = "Event not added due to DB access problem.";
        }
    }
```

```
}
```

WEB USER CONTROL.ASCX

```
<%@ Control Language="C#" AutoEventWireup="true" CodeFile="WebUserControl.ascx.cs"
Inherits="WebUserControl" %>
<asp:Image ID="Image1" runat="server" ImageUrl="~/Images/Caption.png" />
<br />
```

VIEWJOBS.CS

```csharp
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Text;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class ViewJobs : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

        try
        {
            SqlConnection conn = new
SqlConnection(ConfigurationManager.ConnectionStrings["jobportalConnectionString"].Connect
ionString);
            conn.Open();

            SqlCommand insertCommand = new SqlCommand("SELECT * FROM  [jobdetails]",
conn);
            SqlDataReader queryResult = insertCommand.ExecuteReader();

            StringBuilder html = new StringBuilder();
            html.Append("<div class='col-sm-9 col-sm-offset-3 col-lg-10 col-lg-offset-2
main'>");
            html.Append("<div runat='server' id='jobpostpanel2' class='row'>");
            html.Append("<div class='col-lg-12'>");
            html.Append("<h2>Job Posts</h2>");
            html.Append("</div>");

            if (queryResult.HasRows)
            {
                Label1.Text = "Data Fetched Successfully :)";
                Label1.ForeColor = System.Drawing.Color.Green;
                while (queryResult.Read())
                {
                    html.Append("<div class='col-md-4'>");
```

```csharp
                html.Append("<div class='panel panel-default'>");
                html.Append("<div class='panel-heading text-center'>");
                html.Append("<i class='fa fa-quote-left fa-1x fa-pull-left ' aria-
hidden='true'></i>");
                html.Append(queryResult[0].ToString());
                html.Append("<i class='fa fa-quote-right fa-1x fa-pull-right ' aria-
hidden='true'></i>");
                html.Append("</div>");
                html.Append("<div class='panel-body'>");
                html.Append("<i class='fa fa-building fa-border' aria-
hidden='true'></i>"); html.Append(" " + queryResult[3].ToString() + "  ");
                html.Append("<i class='fa fa-compass fa-border' aria-
hidden='true'></i>"); html.Append(" " + queryResult[4].ToString() + "  ");
                html.Append("<i class='fa fa-rupee fa-border' aria-
hidden='true'></i>"); html.Append(" " + queryResult[5].ToString() +
"  <hr/>");
                html.Append("<i class='fa fa-paperclip fa-1x fa-pull-left ' aria-
hidden='true'></i>");
                html.Append("<p>"); html.Append(queryResult[1].ToString());
html.Append("</p><hr/>");
                html.Append("<i class='fa fa-hand-o-right fa-1x fa-pull-left ' aria-
hidden='true'></i>"); html.Append(" Experience Required of " +
queryResult[2].ToString() + "  <hr/>");
                html.Append("</div>");
                html.Append("</div>");
                html.Append("</div>");
            }
        }
        else
        {
            html.Append("<div class='row'><div class='col-lg-12'>");
            html.Append("<div class='alert bg-danger' role='alert'><svg class='glyph
stroked cancel'><use xlink:href='#stroked-cancel'></use></svg> No Jobs are posted <a
href= '#' class='pull-right'><span class='glyphicon glyphicon-
remove'></span></a></div>");
            html.Append("</div></div>");
        }

        html.Append("</div></div>");
        PlaceHolder1.Controls.Add(new Literal { Text = html.ToString() });

        conn.Close();
    }
    catch (Exception ex)
    {
        Label1.Text = "Please Report to admin: " + ex.Message;
        Label1.ForeColor = System.Drawing.Color.Red;
    }
}

protected void Button1_Click(object sender, EventArgs e)
{
}
}
```

JOBPOST.CS

```csharp
using System;
using System.Collections.Generic;
using System.Configuration;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class Default2 : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        try
        {
            SqlConnection conn = new
SqlConnection(ConfigurationManager.ConnectionStrings["jobportalConnectionString"].Connect
ionString);
            conn.Open();
            WellSecond.Visible = true;
            Label1.Text = "Hey";
            string jdesgn = TextBoxDesg.Text;
            string jdesc = TextAreaDesc.InnerText;
            string jexp = TextBoxExp.Text;
            string jcomp = TextBoxCompa.Text;
            string jloc = TextBoxLoca.Text;
            string jsal = TextBoxSalary.Text;

            SqlCommand insertCommand = new SqlCommand("INSERT INTO [jobdetails]
(jdesgn,jdesc,jexp,jcomp,jloc,jsal) VALUES (@jdesgn,@jdesc,@jexp,@jcomp,@jloc,@jsal)",
conn);
            insertCommand.Parameters.Add("@jdesgn", SqlDbType.VarChar, 255,
"jdesgn").Value = jdesgn;
            insertCommand.Parameters.Add("@jdesc", SqlDbType.VarChar, 255, "jdesc").Value
= jdesc;
            insertCommand.Parameters.Add("@jexp", SqlDbType.VarChar, 255, "jexp").Value =
jexp;
            insertCommand.Parameters.Add("@jcomp", SqlDbType.VarChar, 255, "jcomp").Value
= jcomp;
            insertCommand.Parameters.Add("@jloc", SqlDbType.VarChar, 255, "jloc").Value =
jloc;
            insertCommand.Parameters.Add("@jsal", SqlDbType.VarChar, 255, "jsal").Value =
jsal;

            int queryResult = insertCommand.ExecuteNonQuery();

            if (queryResult > 0)
            {
```
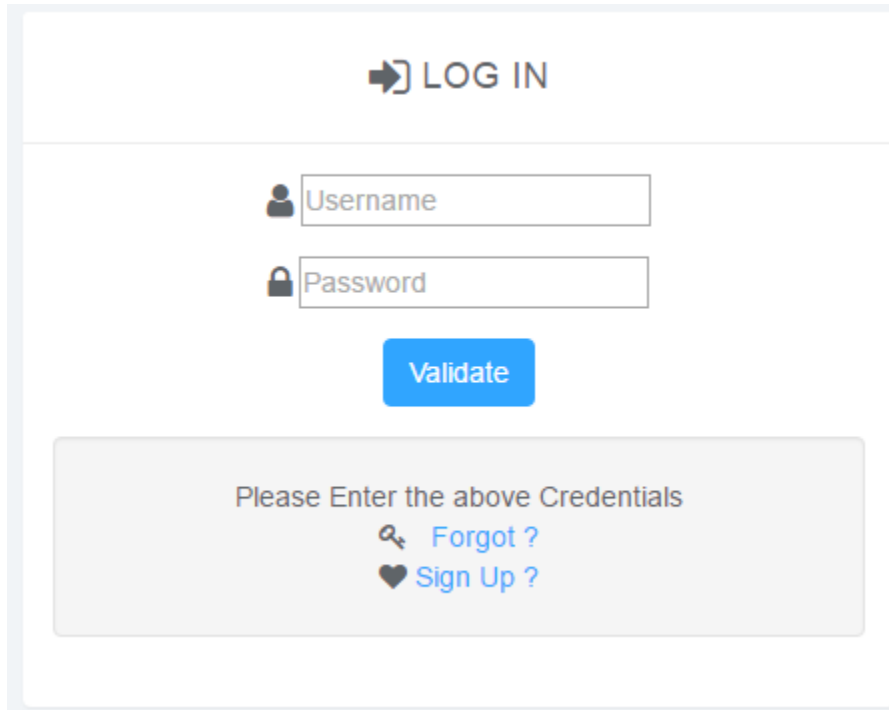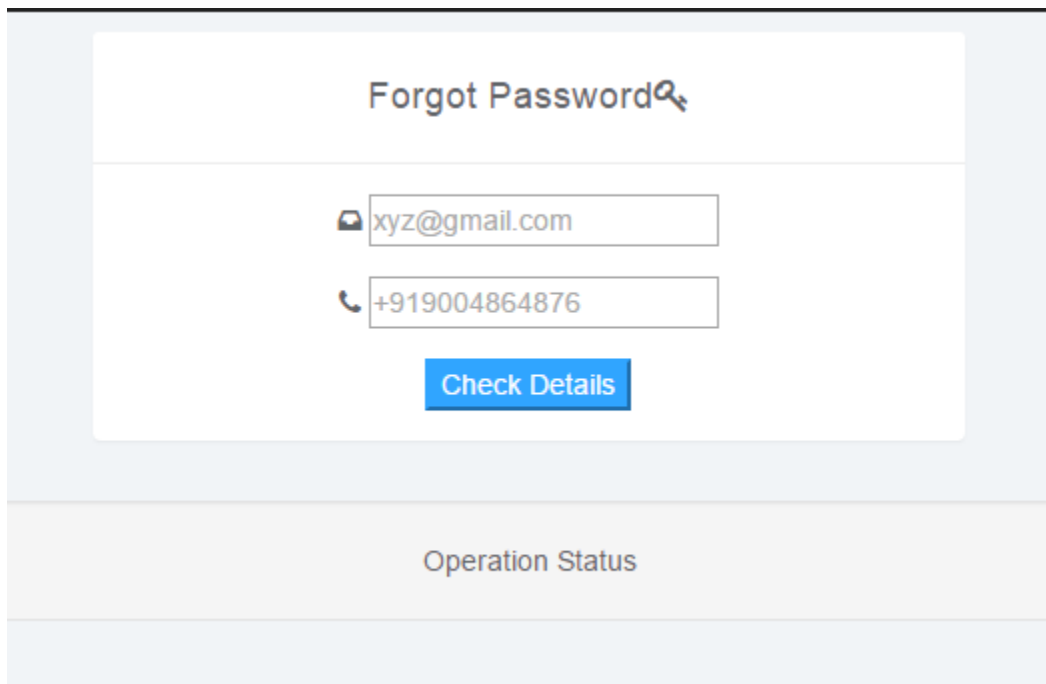
```csharp
                WellSecond.Visible = true;
                Label1.Text = "Data Inserted Successfully :) ";
                Label1.ForeColor = System.Drawing.Color.Green;
            }
            conn.Close();
        }
        catch (Exception ex)
        {
            WellSecond.Visible = true;
            Label1.Text = "Please Refer to Error: " + ex.Message;
            Label1.ForeColor = System.Drawing.Color.Red;
        }

    }

}
```

OUTPUT

LOGIN

FORGOT PASSWORD (UPDATE)

SIGN UP(INSERT)

ADMIN PANEL

POST A JOB -ADMIN PANEL

VIEW JOB – USER PANEL

Result

The above programmed is compiled successfully and the screenshots are well described with successful outputs and constraints.

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