

ASSIGNMENT-1

1. Create a User Registration Web Form with following Details and store data in Database and also use validators controls to apply validations

- Full Name (Apply Required Field Validator)
- Address (Apply Required Field Validator)
- Mobile No (Apply Required Field Validator)
- Email (Check Email is proper or not using Regular Expression Validator)
- DOJ (date of joining) (Apply Required Field Validator)
- UserID (Apply Required Field Validator)
- Password (Apply Required Field Compare with Confirm Password)

Ans:

Webform1.aspx:

```
<%@ Page Language="vb" AutoEventWireup="false"
CodeBehind="WebForm1.aspx.vb" Inherits="vtp.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title>user registration</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
  <link rel="stylesheet" href="StyleSheet1.css">
</head>
<body>
  <form id="form1" runat="server" class="form-container">
    <h1 class="auto-style3">User Registration</h1>

    <div class="form-group">
      <asp:Label ID="lblFullName" runat="server" Text="Full Name"></asp:Label>
      <asp:TextBox ID="txtFullName" runat="server"></asp:TextBox>
      <asp:RequiredFieldValidator ID="rfvFullName" runat="server"
ControlToValidate="txtFullName" ErrorMessage="Full Name is required."
CssClass="error"></asp:RequiredFieldValidator>
    </div>

    <div class="form-group">
      <asp:Label ID="lblAddress" runat="server" Text="Address"></asp:Label>
      <asp:TextBox ID="txtAddress" runat="server"></asp:TextBox>
```

ASSIGNMENT-1

```
<asp:RequiredFieldValidator ID="rfvAddress" runat="server"
ControlToValidate="txtAddress" ErrorMessage="Address is required."
CssClass="error"></asp:RequiredFieldValidator>
</div>
```

```
<div class="form-group">
    <asp:Label ID="lblMobileNo" runat="server" Text="Mobile
No"></asp:Label>
    <asp:TextBox ID="txtMobileNo" runat="server"></asp:TextBox>
    <asp:RequiredFieldValidator ID="rfvMobileNo" runat="server"
ControlToValidate="txtMobileNo" ErrorMessage="Mobile Number is required."
CssClass="error"></asp:RequiredFieldValidator>
</div>
```

```
<div class="form-group">
    <asp:Label ID="lblEmail" runat="server" Text="Email"></asp:Label>
    <asp:TextBox ID="txtEmail" runat="server"></asp:TextBox>
    <asp:RegularExpressionValidator ID="revEmail" runat="server"
ControlToValidate="txtEmail" ErrorMessage="Invalid email format."
ValidationExpression="^\w+@[a-zA-Z_]+?\.[a-zA-Z]{2,3}$"
CssClass="error"></asp:RegularExpressionValidator>
</div>
```

```
<div class="form-group">
    <asp:Label ID="lblDOJ" runat="server" Text="Date of Joining"></asp:Label>
    <asp:TextBox ID="txtDOJ" runat="server"></asp:TextBox>
    <asp:RequiredFieldValidator ID="rfvDOJ" runat="server"
ControlToValidate="txtDOJ" ErrorMessage="Date of Joining is required."
CssClass="error"></asp:RequiredFieldValidator>
</div>
```

```
<div class="form-group">
    <asp:Label ID="lblUserID" runat="server" Text="UserID"></asp:Label>
    <asp:TextBox ID="txtUserID" runat="server"></asp:TextBox>
    <asp:RequiredFieldValidator ID="rfvUserID" runat="server"
ControlToValidate="txtUserID" ErrorMessage="UserID is required."
CssClass="error"></asp:RequiredFieldValidator>
</div>
```

```
<div class="form-group">
    <asp:Label ID="lblPassword" runat="server" Text="Password"></asp:Label>
    <asp:TextBox ID="txtPassword" runat="server"
TextMode="Password"></asp:TextBox>
```

ASSIGNMENT-1

```
<asp:RequiredFieldValidator ID="rfvPassword" runat="server"
ControlToValidate="txtPassword" ErrorMessage="Password is required."
CssClass="error"></asp:RequiredFieldValidator>
</div>

<div class="form-group">
    <asp:Label ID="lblConfirmPassword" runat="server" Text="Confirm
Password"></asp:Label>
    <asp:TextBox ID="txtConfirmPassword" runat="server"
    TextMode="Password"></asp:TextBox>
    <asp:CompareValidator ID="cvConfirmPassword" runat="server"
    ControlToValidate="txtConfirmPassword" ControlToCompare="txtPassword"
    ErrorMessage="Passwords do not match."
    CssClass="error"></asp:CompareValidator>
</div>

<div class="form-group">
    <asp:Button ID="Button1" runat="server" Text="Submit" Height="40px"
    OnClick="Button1_Click" Width="136px" />
    <asp:Button ID="Button2" runat="server" Text="Reset" CssClass="reset-
button" OnClick="Button2_Click" Height="40px" Width="136px" />
</div>

</form>
</body>
</html>
```

Webform1.aspx.vb:

Imports System.Data.SqlClient

Public Class WebForm1

Inherits System.Web.UI.Page

```
Dim connectionString As String = "Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=temp;Integrated Security=True;Connect
Timeout=30;Encrypt=False;TrustServerCertificate=False;"
```

```
Protected Sub Button1_Click(sender As Object, e As EventArgs) Handles
Button1.Click
```

```
Dim fullName As String = txtFullName.Text
```

ASSIGNMENT-1

```
Dim address As String = txtAddress.Text
Dim mobileNo As String = txtMobileNo.Text
Dim email As String = txtEmail.Text
Dim doj As DateTime = DateTime.Parse(txtDOJ.Text)
Dim userID As String = txtUserID.Text
Dim password As String = txtPassword.Text
```

```
InsertUser(fullName, address, mobileNo, email, doj, userID, password)
```

```
' Optionally, provide feedback to the user
Response.Write("User registered successfully!")
End Sub
```

```
Protected Sub Button2_Click(sender As Object, e As EventArgs) Handles
Button2.Click
    resetForm()
End Sub
```

```
Private Sub resetForm()
    txtFullName.Text = ""
    txtAddress.Text = ""
    txtMobileNo.Text = ""
    txtEmail.Text = ""
    txtDOJ.Text = ""
    txtUserID.Text = ""
    txtPassword.Text = ""
    txtConfirmPassword.Text = ""
End Sub
```

```
Public Sub InsertUser(fullName As String, address As String, mobileNo As String,
email As String, doj As DateTime, userID As String, password As String)
    Using conn As New SqlConnection(connectionString)
        Dim query As String = "INSERT INTO Users (FullName, Address, MobileNo,
Email, DOJ, UserID, Password) VALUES (@FullName, @Address, @MobileNo,
@email, @DOJ, @UserID, @Password)"
        Using cmd As New SqlCommand(query, conn)
            cmd.Parameters.AddWithValue("@FullName", fullName)
            cmd.Parameters.AddWithValue("@Address", address)
            cmd.Parameters.AddWithValue("@MobileNo", mobileNo)
            cmd.Parameters.AddWithValue("@Email", email)
            cmd.Parameters.AddWithValue("@DOJ", doj)
            cmd.Parameters.AddWithValue("@UserID", userID)
```

ASSIGNMENT-1

```
cmd.Parameters.AddWithValue("@Password", password) ' Consider
hashing the password
conn.Open()
cmd.ExecuteNonQuery()
End Using
End Using
End Sub

End Class
```

Table:

| | ID | FullName | Address | MobileNo | Email | DOJ | UserID | Password |
|---|------|---------------|--------------------|-------------|-------------------|------------|--------|----------|
| ▶ | 1 | chirag jadhav | 235,priyanka-2 ... | 08141388283 | jadhav2148@g... | 11/22/2004 | cmj | mmm |
| | 2 | XXXXXXXX1450 | cvbcbvbvb | 07499005539 | jadhavchirag48... | 11/22/2004 | fbfb | asas |
| ⚙ | NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

Output:

ASSIGNMENT-1

The screenshot displays a web browser window with a single tab titled 'user registration'. The address bar shows the URL 'http://localhost:44367/WebForm1.aspx'. The main content area features a white registration form with the following fields: 'Mobile No', 'Email', 'Date of Joining', 'UserID', 'Password', and 'Confirm Password'. Each field is represented by a text input box. At the bottom of the form are two buttons: 'Submit' and 'Reset'. The browser's interface includes standard navigation buttons, a search bar, and a Windows taskbar at the bottom showing the system clock as 1:33 PM on 9/18/2024.

2. Create a Login Page using Login Control and check user name and password with database and give access to home page if user name and password are enter correctly otherwise give appropriate message about wrong user name and password. After Successful login, Create Session of UserID and show UserID in Header portion of master page. Also give Signup (Registration) page link to new user in this Login Page.

ANS:

Login.aspx:

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="login.aspx.vb"
Inherits="vtp.login" %>
```

```
<!DOCTYPE html>
```

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

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

```
<title>Log In</title>
```

```
<style>
```

```
body {
```

ASSIGNMENT-1

```
font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
background-color: #f4f4f4; /* Light background color */
margin: 0;
padding: 0;
display: flex;
justify-content: center;
align-items: center;
height: 100vh;
}
```

```
.form-container {
  background-color: #ffffff;
  padding: 40px;
  border-radius: 12px;
  box-shadow: 0 8px 16px rgba(0, 0, 0, 0.1);
  width: 350px;
  max-width: 90%;
}
```

```
.form-container h2 {
  margin-top: 0;
  font-size: 24px;
  color: #333;
  text-align: center;
}
```

```
.login-control {
  margin-bottom: 20px;
```

ASSIGNMENT-1

```
}
```

```
.login-control label {  
    font-weight: bold;  
    font-size: 16px;  
    color: #555;  
    display: block;  
    margin-bottom: 35px;  
    margin-right: 15px;  
}
```

```
.login-textbox {  
    width: 100%;  
    padding: 12px;  
    font-size: 16px;  
    border-radius: 8px;  
    border: 1px solid #ddd;  
    box-sizing: border-box;  
    margin-bottom: 15px;  
    transition: border-color 0.3s;  
}
```

```
.login-textbox:focus {  
    border-color: #007BFF;  
    outline: none;  
}
```

```
.btn-login {
```


ASSIGNMENT-1

```
width: 100%;  
padding: 12px;  
font-size: 16px;  
color: #fff;  
background-color: #007BFF;  
border: none;  
border-radius: 8px;  
cursor: pointer;  
margin-left: 6px;  
transition: background-color 0.3s;  
}
```

```
.btn-login:hover {  
    background-color: #0056b3;  
}
```

```
.signup-link {  
    margin-top: 20px;  
    text-align: center;  
}
```

```
.login-control .remember-me-label {  
    margin-top: 20px;  
    flex: content;  
}
```

```
.signup-link a {
```

ASSIGNMENT-1

```
        color: #007BFF;
        text-decoration: none;
        font-size: 14px;
    }

    .signup-link a:hover {
        text-decoration: underline;
    }
</style>
</head>
<body>
    <form id="form1" runat="server" class="form-container">
        <h2>Log In</h2>
        <asp:Login ID="Login1" runat="server" OnAuthenticate="Login1_Authenticate"
        CssClass="login-control">
            <TitleTextStyle Font-Bold="False" Font-Size="0pt" ForeColor="#ffffff" />
            <InstructionTextStyle ForeColor="#000000" />
            <LabelStyle Font-Bold="True" Font-Size="14pt" ForeColor="#555" />
            <TextBoxStyle CssClass="login-textbox" />
            <LoginButtonStyle CssClass="btn-login" />
            <HyperLinkStyle ForeColor="#333333" />
            <ValidatorTextStyle ForeColor="Red" Font-Names="Verdana" Font-Size="Small" />
        </asp:Login>
        <div class="signup-link">
            <asp:HyperLink ID="hlSignup" runat="server"
            NavigateUrl="~/WebForm1.aspx">Sign Up</asp:HyperLink>
        </div>
    </form>
</body>
```

ASSIGNMENT-1

</html>

Login.aspx.vb:

Imports System.Data.SqlClient

Public Class login

Inherits System.Web.UI.Page

Protected Sub Login1_Authenticate(sender As Object, e As AuthenticateEventArgs)

Dim userID As String = Login1.UserName

Dim password As String = Login1.Password

' Validate user credentials

If ValidateUser(userID, password) Then

' Create a session for the UserID and redirect to home page

Session("UserID") = userID

Response.Redirect("Home.aspx")

Else

' Display error message

Login1.FailureText = "Invalid UserID or password."

End If

End Sub

Private Function ValidateUser(userID As String, password As String) As Boolean

Dim isValid As Boolean = False

Dim connectionString As String = "Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=temp;Integrated Security=True;Connect

ASSIGNMENT-1

Timeout=30;Encrypt=False;TrustServerCertificate=False;" ' Replace with your actual connection string

Using conn As New SqlConnection(connectionString)

Dim query As String = "SELECT COUNT(*) FROM Users WHERE UserID = @UserID
AND Password = @Password"

Using cmd As New SqlCommand(query, conn)

cmd.Parameters.AddWithValue("@UserID", userID)

cmd.Parameters.AddWithValue("@Password", password) ' Consider hashing the password in production

conn.Open()

Dim count As Integer = Convert.ToInt32(cmd.ExecuteScalar())

If count > 0 Then

isValid = True

End If

End Using

End Using

Return isValid

End Function

Private Function GetUserID(userID As String) As Integer

Dim userIDValue As Integer = -1

Dim connectionString As String = "Your_Connection_String_Here" ' Replace with your actual connection string

Using conn As New SqlConnection(connectionString)

Dim query As String = "SELECT ID FROM Users WHERE UserID = @UserID"

Using cmd As New SqlCommand(query, conn)

cmd.Parameters.AddWithValue("@UserID", userID)

conn.Open()

userIDValue = Convert.ToInt32(cmd.ExecuteScalar())

End Using

ASSIGNMENT-1

End Using

Return userIDValue

End Function

End Class

Site1.master:

```
<%@ Master Language="VB" AutoEventWireup="false" CodeBehind="Site1.master.vb"
Inherits="vtp.Site1" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

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

```
<title></title>
```

```
<asp:ContentPlaceHolder ID="head" runat="server">
```

```
</asp:ContentPlaceHolder>
```

```
</head>
```

```
<body>
```

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

```
<div class="header">
```

```
<asp:Label ID="lblUserID" runat="server" />
```

```
</div>
```

```
<div class="content">
```

```
<asp:ContentPlaceHolder ID="MainContent" runat="server" />
```

```
</div>
```

```
<div class="footer">
```

```
<!-- Footer content -->
```

```
</div>
```

ASSIGNMENT-1

```
</form>  
</body>  
</html>
```

Site1.master.vb:

Public Class Site1

Inherits System.Web.UI.MasterPage

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

If Not IsPostBack Then

If Session("UserID") IsNot Nothing Then

lblUserID.Text = "Welcome, UserID: " & Session("UserID").ToString()

Else

lblUserID.Text = "Welcome, Guest"

End If

End If

End Sub

End Class

Home.aspx:

```
<%@ Page Title="" Language="vb" AutoEventWireup="false"  
MasterPageFile="~/Site1.Master" CodeBehind="Home.aspx.vb" Inherits="vtp.Home" %>  
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
```

ASSIGNMENT-1

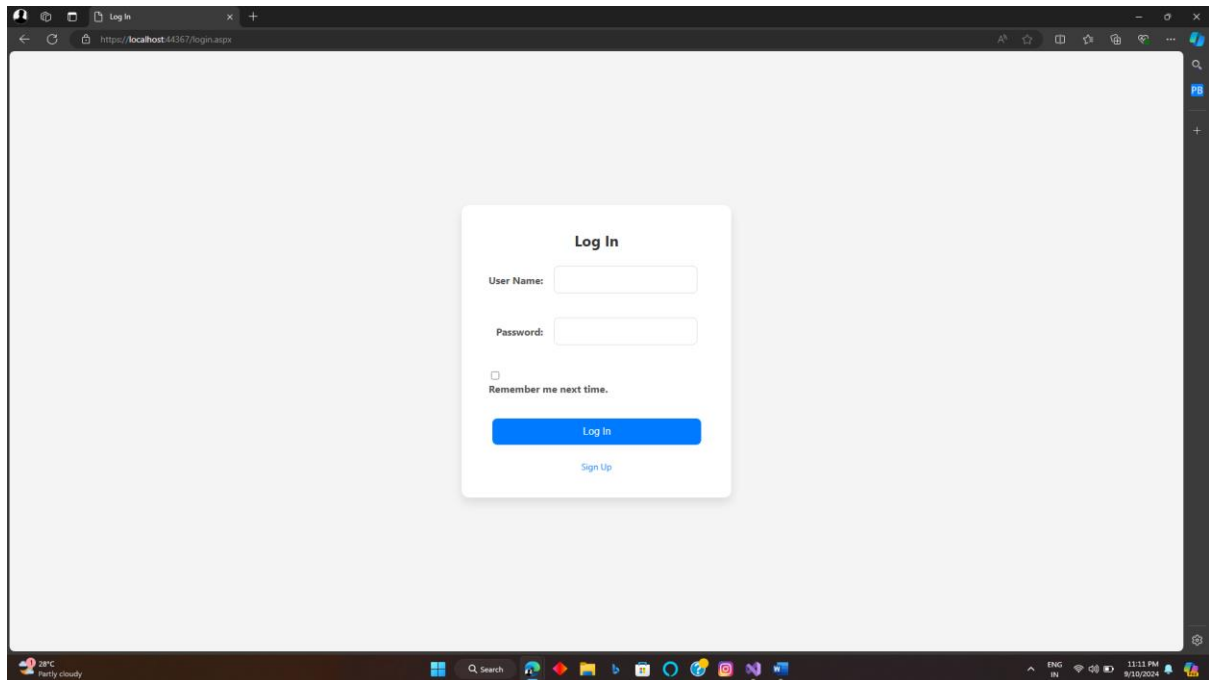
</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="MainContent" runat="server">

<h1>Welcome to the Home Page</h1>

</asp:Content>

Output:



3. Develop a master page and home page with your own CSS with following link in master page. (master page should be divide in 3 sections 1st Header, 2nd Content page and 3rd Footer) • Home • +/• Employee • Data List • Form View • Viewstate • Query String • Logout

ANS:

Site1.master:

```
<%@ Master Language="VB" AutoEventWireup="false" CodeBehind="Site1.master.vb"
Inherits="vtp.Site1" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

ASSIGNMENT-1

```
<head runat="server">
<title></title>
<style>
    body {
        font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
        margin: 0;
        padding: 0;
        background-color: #f0f0f0; /* Light background color */
    }

    .header {
        background-color: #007BFF; /* Header background color */
        color: white;
        padding: 15px;
        text-align: center;
    }

    .header h1 {
        margin: 0;
        font-size: 24px;
    }

    .nav {
        background-color: #333; /* Navigation bar color */
        overflow: hidden;
    }

    .nav a {
```


ASSIGNMENT-1

```
float: left;

display: block;

color: white;

text-align: center;

padding: 14px 20px;

text-decoration: none;

font-size: 14px;
}

.nav a:hover {

    background-color: #575757; /* Hover effect */
}

.content {

    padding: 20px;

    min-height: 400px; /* Ensure some height for content area */

    background-color: white;

    margin: 10px;

    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

    border-radius: 5px;
}

.footer {

    background-color: #007BFF; /* Footer background color */

    color: white;

    text-align: center;

    padding: 10px;

    position: fixed;
```

ASSIGNMENT-1

```
width: 100%;  
bottom: 0;  
}  
</style>  
<asp:ContentPlaceHolder ID="head" runat="server">  
</asp:ContentPlaceHolder>  
</head>  
<body>  
  <form id="form1" runat="server">  
    <div class="header">  
      <h1>My Application</h1>  
      <asp:Label ID="lblUserID" runat="server" />  
    </div>  
  
    <div class="nav">  
      <a href="Home.aspx">Home</a>  
      <a href="MathOperations.aspx">+/*</a>  
      <a href="Employee.aspx">Employee</a>  
      <a href="DataList.aspx">Data List</a>  
      <a href="FormView.aspx">Form View</a>  
      <a href="ViewStateExample.aspx">Viewstate</a>  
      <a href="QueryStringExample.aspx">Query String</a>  
      <a href="Logout.aspx">Logout</a>  
    </div>  
  
    <div class="content">  
      <asp:ContentPlaceHolder ID="MainContent" runat="server" />  
    </div>
```

ASSIGNMENT-1

```
<div class="footer">  
    &copy; 2024 My Application. All rights reserved.  
</div>  
</form>  
</body>  
</html>
```

Side1.master.vb:

Public Class Site1

Inherits System.Web.UI.MasterPage

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

 If Not IsPostBack Then

 If Session("UserName") IsNot Nothing Then

 lblUserID.Text = "Welcome, " & Session("UserName").ToString()

 Else

 lblUserID.Text = "Welcome, Guest"

 End If

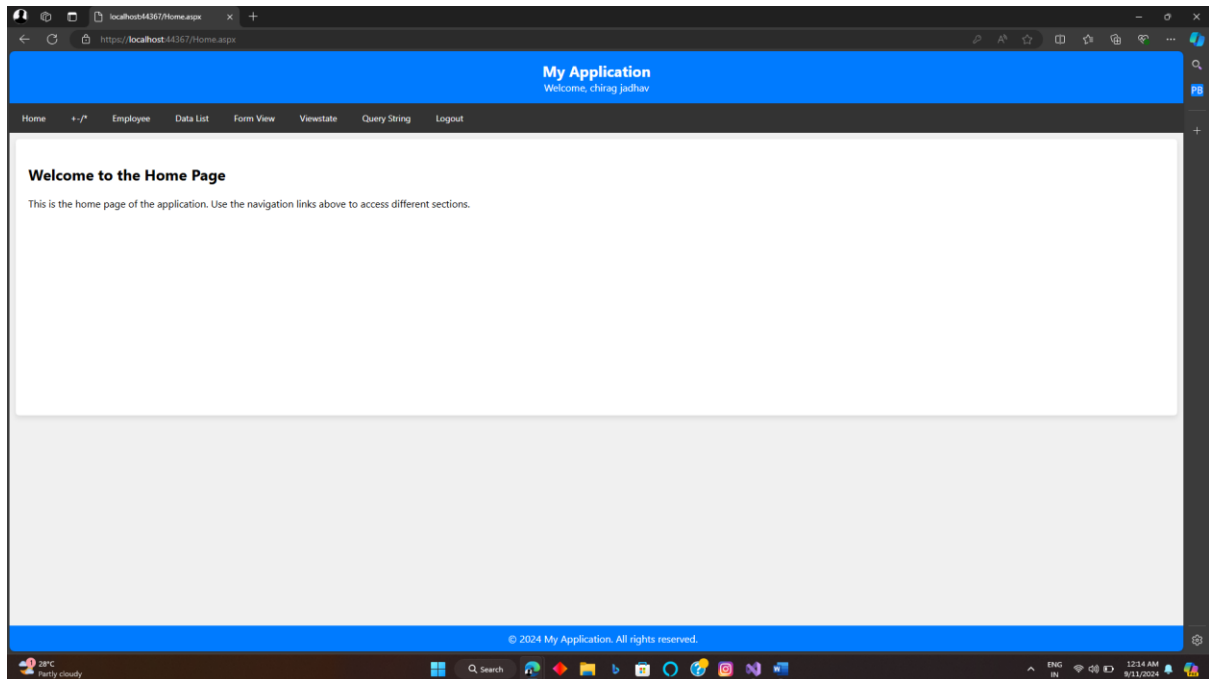
 End If

End Sub

End Class

Output:

ASSIGNMENT-1



4. Develop a ASPX (Web Form) page to take input of two numbers using ASP textbox and perform Sum, Minus, Division and Multiply and Show the answer on another textbox.

ANS:

MathOperations.aspx:

```
<%@ Page Title="Math Operations" Language="vb" AutoEventWireup="false"
MasterPageFile="~/Site1.Master" CodeBehind="MathOperations.aspx.vb"
Inherits="vtp.MathOperations" %>
```

```
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
```

```
</asp:Content>
```

```
<asp:Content ID="Content2" ContentPlaceHolderID="MainContent" runat="server">
```

```
<style>
```

```
    .form-container {
```

```
        background-color: #fff;
```

```
        padding: 30px 40px;
```

```
        border-radius: 10px;
```

```
        box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
```

```
        width: 400px;
```

ASSIGNMENT-1

```
max-width: 100%;  
margin: auto;  
}
```

```
.form-group {  
    margin-bottom: 20px;  
}
```

```
.form-group label {  
    font-weight: bold;  
    display: block;  
    margin-bottom: 5px;  
    font-size: 14pt;  
    color: #333;  
}
```

```
.form-group input[type="text"] {  
    width: 100%;  
    padding: 10px;  
    font-size: 14pt;  
    border-radius: 5px;  
    border: 1px solid #ccc;  
    box-sizing: border-box;  
    margin-bottom: 15px;  
}
```

```
.form-group button {  
    width: 100%;
```

ASSIGNMENT-1

```
padding: 12px;
font-size: 14pt;
color: #fff;
background-color: #007BFF;
border: none;
border-radius: 5px;
cursor: pointer;
transition: all 0.3s ease; /* Smooth transition for all properties */
margin-top: 10px;
box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1); /* Button shadow */
letter-spacing: 1px; /* Space between letters */
}

.form-group button:hover {
    background-color: #0056b3;
    transform: translateY(-2px); /* Slight lift on hover */
    box-shadow: 0 8px 15px rgba(0, 0, 0, 0.2); /* Larger shadow on hover */
}

.form-group button:active {
    background-color: #004494;
    transform: translateY(2px); /* Slight press effect on click */
    box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1); /* Reset shadow on click */
}

.result {
    margin-top: 20px;
    font-size: 14pt;
```

ASSIGNMENT-1

```
color: #333;  
}
```

```
.result input[type="text"] {  
    width: 100%;  
    padding: 10px;  
    font-size: 14pt;  
    border-radius: 5px;  
    border: 1px solid #ccc;  
    box-sizing: border-box;  
    background-color: #f9f9f9;  
    color: #555;  
}
```

```
</style>
```

```
<div class="form-container">
```

```
    <h2 style="text-align: center; color: #007BFF;">Math Operations</h2>
```

```
    <div class="form-group">
```

```
        <label for="txtNumber1">Number 1:</label>
```

```
        <asp:TextBox ID="txtNumber1" runat="server" CssClass="form-control"></asp:TextBox>
```

```
    </div>
```

```
    <div class="form-group">
```

```
        <label for="txtNumber2">Number 2:</label>
```

```
        <asp:TextBox ID="txtNumber2" runat="server" CssClass="form-control"></asp:TextBox>
```

```
    </div>
```

```
    <div class="form-group">
```

ASSIGNMENT-1

```
<asp:Button ID="btnSum" runat="server" Text="Sum" CssClass="btn"
OnClick="btnSum_Click" />

<asp:Button ID="btnSubtract" runat="server" Text="Subtract" CssClass="btn"
OnClick="btnSubtract_Click" />

<asp:Button ID="btnMultiply" runat="server" Text="Multiply" CssClass="btn"
OnClick="btnMultiply_Click" />

<asp:Button ID="btnDivide" runat="server" Text="Divide" CssClass="btn"
OnClick="btnDivide_Click" />

</div>

<div class="result">

<label for="txtResult">Result:</label>

<asp:TextBox ID="txtResult" runat="server" CssClass="form-control"
ReadOnly="True"></asp:TextBox>

</div>

</div>

</asp:Content>
```

MathOperations.aspx.vb:

Public Class MathOperations

Inherits System.Web.UI.Page

Protected Sub btnSum_Click(sender As Object, e As EventArgs) Handles btnSum.Click

PerformOperation("+")

End Sub

Protected Sub btnSubtract_Click(sender As Object, e As EventArgs) Handles btnSubtract.Click

PerformOperation("-")

End Sub

ASSIGNMENT-1

**Protected Sub btnMultiply_Click(sender As Object, e As EventArgs) Handles
btnMultiply.Click**

PerformOperation("*")

End Sub

**Protected Sub btnDivide_Click(sender As Object, e As EventArgs) Handles
btnDivide.Click**

PerformOperation("/")

End Sub

Private Sub PerformOperation(operation As String)

Dim number1 As Double

Dim number2 As Double

**If Double.TryParse(txtNumber1.Text, number1) AndAlso
Double.TryParse(txtNumber2.Text, number2) Then**

Select Case operation

Case "+"

txtResult.Text = (number1 + number2).ToString()

Case "-"

txtResult.Text = (number1 - number2).ToString()

Case "*"

txtResult.Text = (number1 * number2).ToString()

Case "/"

If number2 <> 0 Then

txtResult.Text = (number1 / number2).ToString()

Else

txtResult.Text = "Cannot divide by zero"

ASSIGNMENT-1

End If

End Select

Else

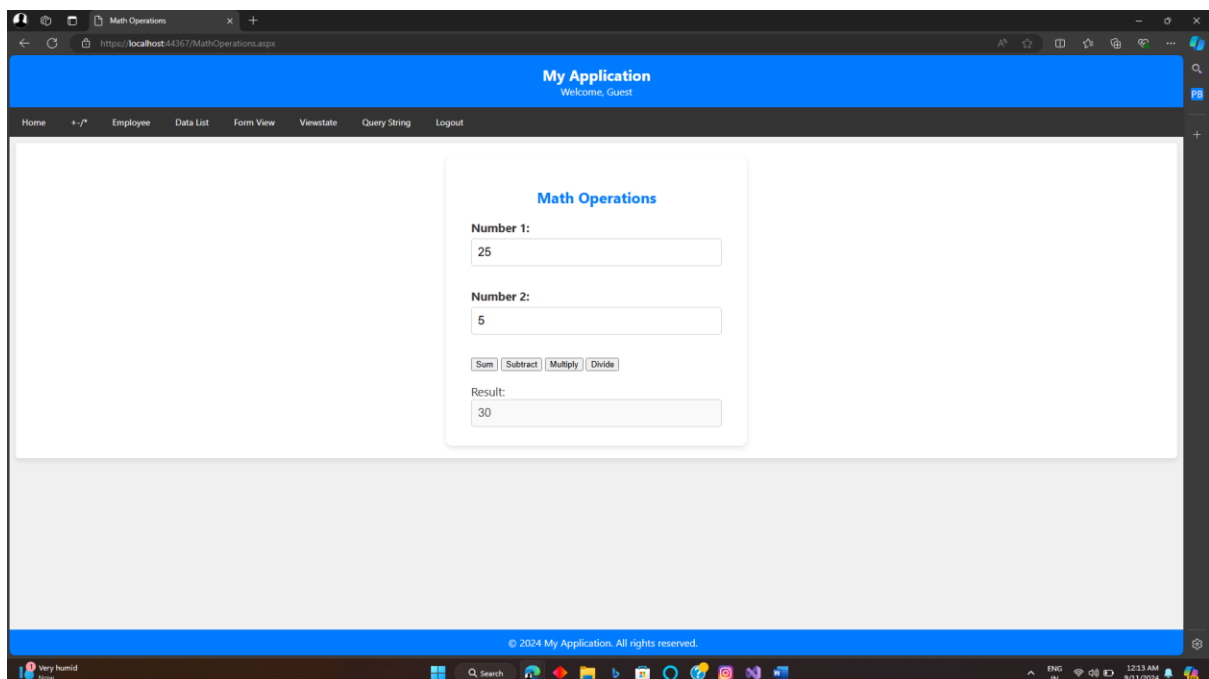
txtResult.Text = "Invalid input. Please enter valid numbers."

End If

End Sub

End Class

Output:



5. Create a Employee Record Web Form with following Details and perform Insert, Update, Delete Operation and Show Saved Records in GridView Control and also use validators controls to apply validations. Apply Paging Option in Gridview Control.

- Emp No
- Emp Name
- Mobile No
- Salary.

ANS:

Employee.aspx:

ASSIGNMENT-1

```
<%@ Page Title="" Language="vb" AutoEventWireup="false"  
MasterPageFile=~\Site1.Master" CodeBehind="Employee.aspx.vb"  
Inherits="vtp.Employee" %>
```

```
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
```

```
</asp:Content>
```

```
<asp:Content ID="Content2" ContentPlaceHolderID="MainContent" runat="server">
```

```
<style>
```

```
.form-container {
```

```
background-color: #fff;
```

```
padding: 30px 40px;
```

```
border-radius: 10px;
```

```
box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
```

```
max-width: 600px;
```

```
margin: auto;
```

```
}
```

```
.form-group {
```

```
margin-bottom: 20px;
```

```
}
```

```
.form-group label {
```

```
font-weight: bold;
```

```
display: block;
```

```
margin-bottom: 5px;
```

```
font-size: 12pt;
```

```
}
```

```
.form-group input[type="text"] {
```

```
width: 100%;
```

ASSIGNMENT-1

```
padding: 8px;  
font-size: 12pt;  
border-radius: 5px;  
border: 1px solid #ccc;  
box-sizing: border-box;  
}
```

```
.form-group button {  
padding: 10px 20px;  
font-size: 12pt;  
color: #fff;  
background-color: #007BFF;  
border: none;  
border-radius: 5px;  
cursor: pointer;  
margin-right: 10px;  
transition: background-color 0.3s;  
}
```

```
.form-group button:hover {  
background-color: #0056b3;  
}
```

```
.grid-container {  
margin-top: 30px;  
}
```

</style>

ASSIGNMENT-1

```
<div class="form-container">

    <h2>Employee Record Management</h2>

    <div class="form-group">

        <label for="txtEmpName">Emp Name:</label>

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

        <asp:RequiredFieldValidator ID="rfvEmpName" runat="server"
ControlToValidate="txtEmpName" ErrorMessage="Emp Name is required."
ForeColor="Red" Display="Dynamic" />

    </div>

    <div class="form-group">

        <label for="txtMobileNo">Mobile No:</label>

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

        <asp:RequiredFieldValidator ID="rfvMobileNo" runat="server"
ControlToValidate="txtMobileNo" ErrorMessage="Mobile No is required."
ForeColor="Red" Display="Dynamic" />

    </div>

    <div class="form-group">

        <label for="txtSalary">Salary:</label>

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

        <asp:RequiredFieldValidator ID="rfvSalary" runat="server"
ControlToValidate="txtSalary" ErrorMessage="Salary is required." ForeColor="Red"
Display="Dynamic" />

        <asp:RegularExpressionValidator ID="revSalary" runat="server"
ControlToValidate="txtSalary" ErrorMessage="Invalid Salary format."
ValidationExpression="^\d+(\.\d{1,2})?$" ForeColor="Red" Display="Dynamic" />

    </div>

    <div class="form-group">

        <asp:Button ID="btnInsert" runat="server" Text="Insert" OnClick="btnInsert_Click"
CssClass="btn" style="height: 26px" />

        <asp:Button ID="btnUpdate" runat="server" Text="Update"
OnClick="btnUpdate_Click" CssClass="btn" />

    </div>

</div>
```

ASSIGNMENT-1

```
<asp:Button ID="btnDelete" runat="server" Text="Delete"
OnClick="btnDelete_Click" CssClass="btn" />
```

```
</div>
```

```
</div>
```

```
<div class="grid-container">
```

```
<asp:GridView ID="gvEmployees" runat="server" AutoGenerateColumns="False"
OnSelectedIndexChanged="gvEmployees_SelectedIndexChanged"
OnPageIndexChanging="gvEmployees_PageIndexChanging" AllowPaging="True"
PageSize="5" CssClass="grid-view">
```

```
<Columns>
```

```
<asp:BoundField DataField="EmpNo" HeaderText="Emp No" ReadOnly="True" />
```

```
<asp:BoundField DataField="EmpName" HeaderText="Emp Name" />
```

```
<asp:BoundField DataField="MobileNo" HeaderText="Mobile No" />
```

```
<asp:BoundField DataField="Salary" HeaderText="Salary"
DataFormatString="{0:C}" />
```

```
<asp:CommandField ShowSelectButton="True" SelectText="Select" />
```

```
</Columns>
```

```
</asp:GridView>
```

```
</div>
```

```
</asp:Content>
```

Employee.aspx.vb:

```
Imports System.Data.SqlClient
```

```
Public Class Employee
```

```
Inherits System.Web.UI.Page
```

ASSIGNMENT-1

Private connectionString As String = "Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=temp;Integrated Security=True;Connect Timeout=30;Encrypt=False;TrustServerCertificate=False;" ' Update with your database connection string

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

 If Not IsPostBack Then

 BindGridView()

 End If

End Sub

Private Sub BindGridView()

 Using conn As New SqlConnection(connectionString)

 Using cmd As New SqlCommand("SELECT EmpNo, EmpName, MobileNo, Salary FROM Employees", conn)

 conn.Open()

 Dim dt As New DataTable()

 Dim adapter As New SqlDataAdapter(cmd)

 adapter.Fill(dt)

 gvEmployees.DataSource = dt

 gvEmployees.DataBind()

 End Using

 End Using

End Sub

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

 Using conn As New SqlConnection(connectionString)

 Using cmd As New SqlCommand("INSERT INTO Employees (EmpName, MobileNo, Salary) VALUES (@EmpName, @MobileNo, @Salary)", conn)

ASSIGNMENT-1

```
cmd.Parameters.AddWithValue("@EmpName", txtEmpName.Text)
cmd.Parameters.AddWithValue("@MobileNo", txtMobileNo.Text)
cmd.Parameters.AddWithValue("@Salary", Convert.ToDecimal(txtSalary.Text))
conn.Open()
cmd.ExecuteNonQuery()
```

End Using

End Using

ClearFields()

BindGridView()

End Sub

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

If gvEmployees.SelectedRow IsNot Nothing Then

Dim empNo As Integer = Convert.ToInt32(gvEmployees.SelectedRow.Cells(0).Text)

Using conn As New SqlConnection(connectionString)

Using cmd As New SqlCommand("UPDATE Employees SET
EmpName=@EmpName, MobileNo=@MobileNo, Salary=@Salary WHERE
EmpNo=@EmpNo", conn)

cmd.Parameters.AddWithValue("@EmpNo", empNo)

cmd.Parameters.AddWithValue("@EmpName", txtEmpName.Text)

cmd.Parameters.AddWithValue("@MobileNo", txtMobileNo.Text)

cmd.Parameters.AddWithValue("@Salary", Convert.ToDecimal(txtSalary.Text))

conn.Open()

cmd.ExecuteNonQuery()

End Using

End Using

ClearFields()

BindGridView()

End If

ASSIGNMENT-1

End Sub

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

If gvEmployees.SelectedRow IsNot Nothing Then

Dim empNo As Integer = Convert.ToInt32(gvEmployees.SelectedRow.Cells(0).Text)

Using conn As New SqlConnection(connectionString)

**Using cmd As New SqlCommand("DELETE FROM Employees WHERE
EmpNo=@EmpNo", conn)**

cmd.Parameters.AddWithValue("@EmpNo", empNo)

conn.Open()

cmd.ExecuteNonQuery()

End Using

End Using

ClearFields()

BindGridView()

End If

End Sub

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

txtEmpName.Text = gvEmployees.SelectedRow.Cells(1).Text

txtMobileNo.Text = gvEmployees.SelectedRow.Cells(2).Text

txtSalary.Text = gvEmployees.SelectedRow.Cells(3).Text

End Sub

**Protected Sub gvEmployees_PageIndexChanging(sender As Object, e As
GridViewPageEventArgs)**

gvEmployees.PageIndex = e.NewPageIndex

BindGridView()

End Sub

ASSIGNMENT-1

Private Sub ClearFields()

txtEmpName.Text = ""

txtMobileNo.Text = ""

txtSalary.Text = ""

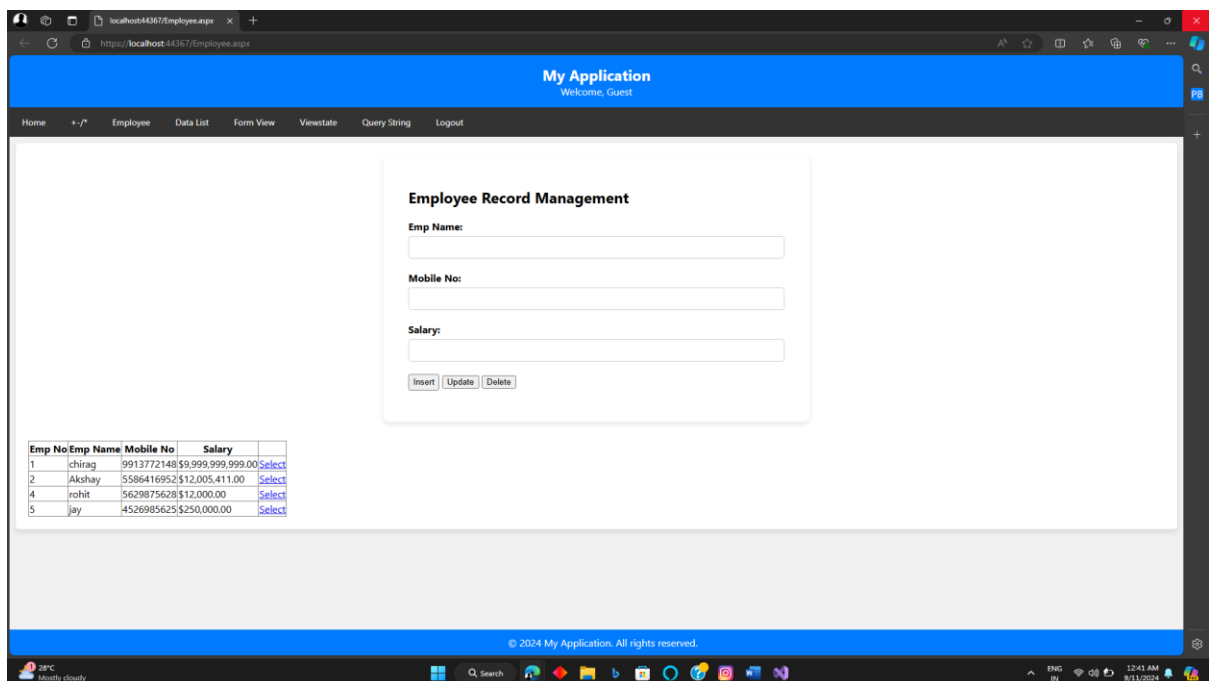
End Sub

End Class

Employee table:

| | EmpNo | EmpName | MobileNo | Salary |
|---|-------|---------|------------|---------------|
| ▶ | 1 | chirag | 9913772148 | 9999999999.00 |
| | 2 | Akshay | 5586416952 | 12005411.00 |
| | 4 | rohit | 5629875628 | 12000.00 |
| | 5 | jay | 4526985625 | 250000.00 |
| ⚙ | NULL | NULL | NULL | NULL |

Output:



6. Create a web form that will show the employee records using Data List Controls and apply any of Auto Format Style.

ASSIGNMENT-1

ANS:

DataList.aspx:

```
<%@ Page Title="" Language="vb" AutoEventWireup="false"
MasterPageFile="~/Site1.Master" CodeBehind="DataList.aspx.vb" Inherits="vtp.DataList"
%>
```

```
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
```

```
</asp:Content>
```

```
<asp:Content ID="Content2" ContentPlaceHolderID="MainContent" runat="server">
```

```
<style>
```

```
.datalist-container {
```

```
background-color: #fff;
```

```
padding: 20px;
```

```
border-radius: 10px;
```

```
box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
```

```
max-width: 800px;
```

```
margin: auto;
```

```
margin-top: 30px;
```

```
}
```

```
.datalist-header {
```

```
font-weight: bold;
```

```
font-size: 18px;
```

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

```
margin-bottom: 20px;
```

```
color: #007BFF;
```

```
}
```

```
.datalist-item {
```

```
padding: 10px;
```

ASSIGNMENT-1

```
border-bottom: 1px solid #ddd;
display: flex;
justify-content: space-between;
}
```

```
.datalist-item:last-child {
border-bottom: none;
}
```

```
.datalist-label {
font-weight: bold;
color: #555;
}
```

```
.datalist-value {
color: #333;
}
```

</style>

<div class="datalist-container">

<h2 class="datalist-header">Employee Records</h2>

<asp:DataList ID="dlEmployees" runat="server" AutoGenerateColumns="False">

<ItemTemplate>

<div class="datalist-item">

<div>

Emp No:

<%# Eval("EmpNo") %>

</div>

ASSIGNMENT-1

```
<div>
    <span class="datalist-label">Emp Name:</span>
    <span class="datalist-value"><%# Eval("EmpName") %></span>
</div>
<div>
    <span class="datalist-label">Mobile No:</span>
    <span class="datalist-value"><%# Eval("MobileNo") %></span>
</div>
<div>
    <span class="datalist-label">Salary:</span>
    <span class="datalist-value"><%# Eval("Salary", "{0:C}") %></span>
</div>
</div>
</ItemTemplate>
</asp:DataList>
</div>
</asp:Content>
```

DataList.aspx.vb:

Imports System.Data.SqlClient

Public Class DataList

Inherits System.Web.UI.Page

Private connectionString As String = "Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=temp;Integrated Security=True;Connect Timeout=30;Encrypt=False;TrustServerCertificate=False;" ' Replace with your actual connection string

ASSIGNMENT-1

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

If Not IsPostBack Then

BindDataList()

End If

End Sub

Private Sub BindDataList()

Using conn As New SqlConnection(connectionString)

**Using cmd As New SqlCommand("SELECT EmpNo, EmpName, MobileNo, Salary
FROM Employees", conn)**

conn.Open()

Dim dt As New DataTable()

Dim adapter As New SqlDataAdapter(cmd)

adapter.Fill(dt)

dlEmployees.DataSource = dt

dlEmployees.DataBind()

End Using

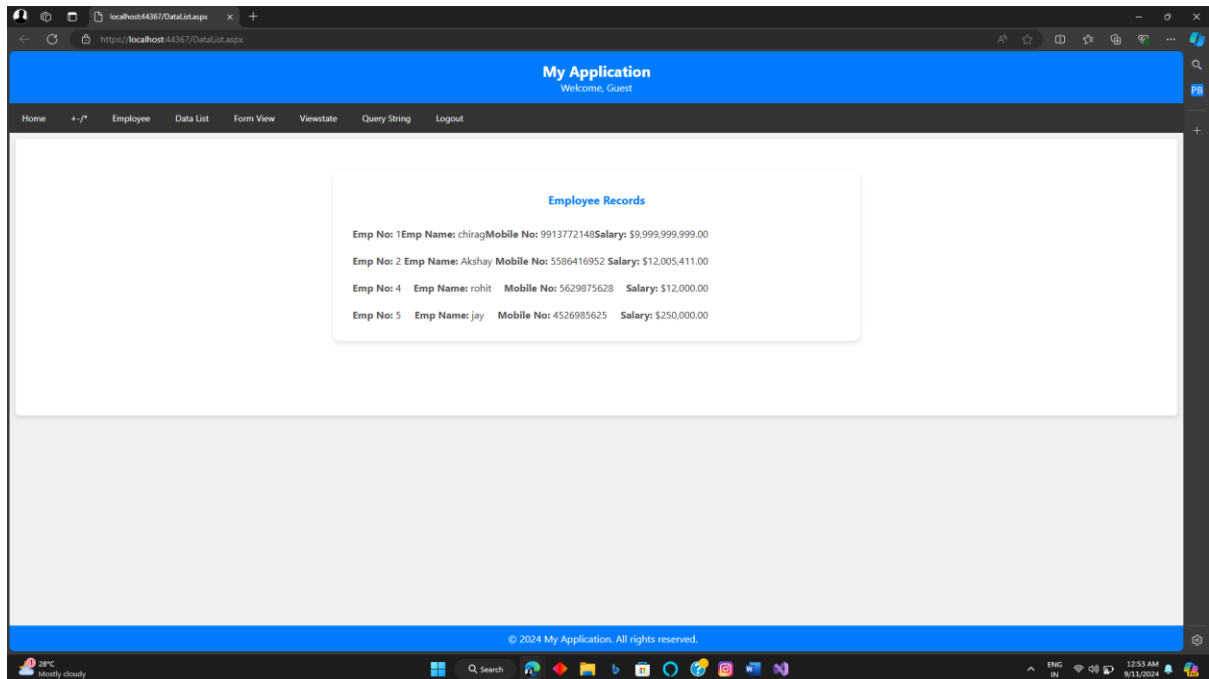
End Using

End Sub

End Class

OutPut:

ASSIGNMENT-1



7. Create a web form that will show the employee records using FormView Controls and apply Numeric Paging style to it.

ANS:

FormView.aspx:

```
<%@ Page Title="" Language="vb" AutoEventWireup="false"
MasterPageFile="~/Site1.Master" CodeBehind="FormView.aspx.vb"
Inherits="vtp.FormView" %>
```

```
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
```

```
</asp:Content>
```

```
<asp:Content ID="Content2" ContentPlaceHolderID="MainContent" runat="server">
```

```
<style>
```

```
.formview-container {
```

```
background-color: #fff;
```

```
padding: 30px 40px;
```

```
border-radius: 10px;
```

```
box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
```

```
max-width: 600px;
```

ASSIGNMENT-1

```
margin: auto;  
margin-top: 30px;  
}
```

```
.formview-header {  
    font-weight: bold;  
    font-size: 18px;  
    text-align: center;  
    margin-bottom: 20px;  
    color: #007BFF;  
}
```

```
.formview-item {  
    padding: 10px;  
    border-bottom: 1px solid #ddd;  
}
```

```
.formview-label {  
    font-weight: bold;  
    color: #555;  
}
```

```
.formview-value {  
    color: #333;  
}
```

```
.pager {  
    text-align: center;
```


ASSIGNMENT-1

```
margin-top: 20px;
}

.pager a {
  color: #007BFF;
  text-decoration: none;
  padding: 5px 10px;
  border: 1px solid #007BFF;
  border-radius: 5px;
  margin: 0 5px;
  transition: all 0.3s ease;
}

.pager a:hover {
  background-color: #007BFF;
  color: white;
}

.pager .current {
  background-color: #0056b3;
  color: white;
  padding: 5px 10px;
  border: 1px solid #0056b3;
  border-radius: 5px;
  margin: 0 5px;
}
</style>
```

ASSIGNMENT-1

```
<div class="formview-container">

    <h2 class="formview-header">Employee Records</h2>

    <asp:FormView ID="fvEmployees" runat="server" DataKeyNames="EmpNo"
AllowPaging="True" OnPageIndexChanging="fvEmployees_PageIndexChanging">

        <ItemTemplate>

            <div class="formview-item">

                <span class="formview-label">Emp No:</span>

                <span class="formview-value"><%# Eval("EmpNo") %></span>

            </div>

            <div class="formview-item">

                <span class="formview-label">Emp Name:</span>

                <span class="formview-value"><%# Eval("EmpName") %></span>

            </div>

            <div class="formview-item">

                <span class="formview-label">Mobile No:</span>

                <span class="formview-value"><%# Eval("MobileNo") %></span>

            </div>

            <div class="formview-item">

                <span class="formview-label">Salary:</span>

                <span class="formview-value"><%# Eval("Salary", "{0:C}") %></span>

            </div>

        </ItemTemplate>

        <PagerSettings Mode="Numeric" PageButtonCount="5" />

        <PagerStyle CssClass="pager" />

    </asp:FormView>

</div>

</asp:Content>
```

FormView.aspx.vb:

ASSIGNMENT-1

Imports System.Data.SqlClient

Public Class FormView

Inherits System.Web.UI.Page

Private connectionString As String = "Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=temp;Integrated Security=True;Connect Timeout=30;Encrypt=False;TrustServerCertificate=False;" ' Replace with your actual connection string

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

If Not IsPostBack Then

BindFormView()

End If

End Sub

Private Sub BindFormView()

Using conn As New SqlConnection(connectionString)

Using cmd As New SqlCommand("SELECT EmpNo, EmpName, MobileNo, Salary FROM Employees", conn)

conn.Open()

Dim dt As New DataTable()

Dim adapter As New SqlDataAdapter(cmd)

adapter.Fill(dt)

fvEmployees.DataSource = dt

fvEmployees.DataBind()

End Using

End Using

ASSIGNMENT-1

End Sub

Protected Sub fvEmployees_PageIndexChanging(sender As Object, e As FormViewPageEventArgs)

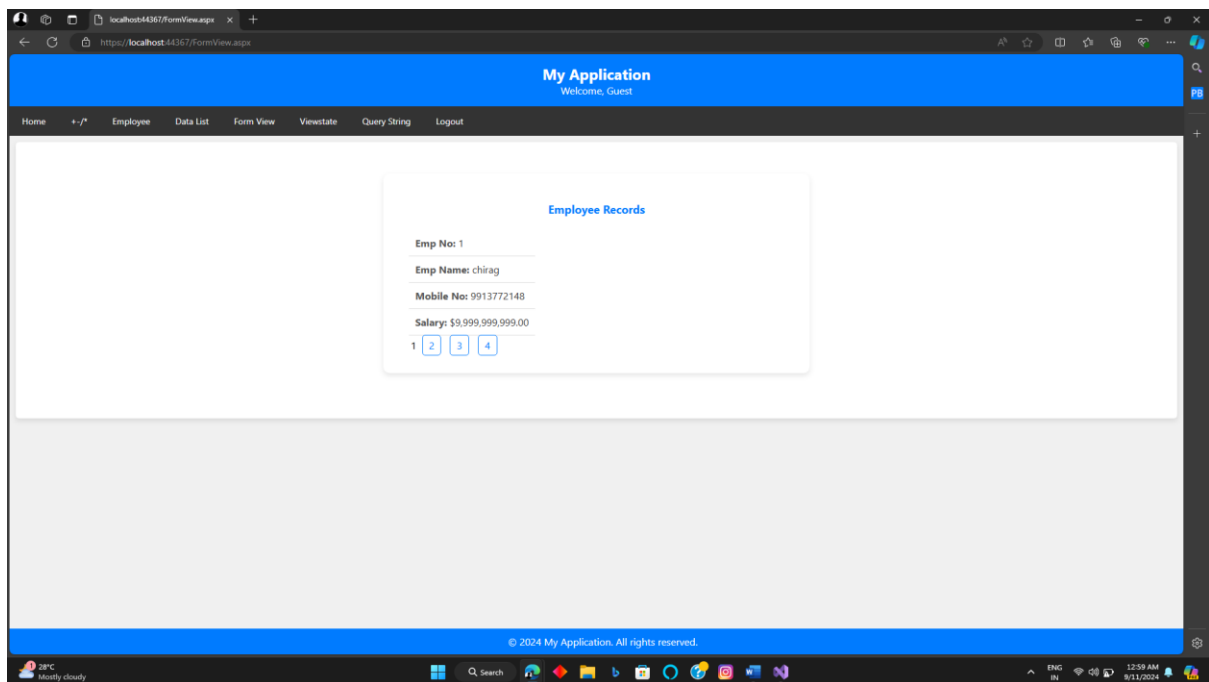
fvEmployees.PageIndex = e.NewPageIndex

BindFormView()

End Sub

End Class

Output:



8. Create a Web form to Demonstrate use of ViewState Example.

ANS:

ViewStateExample.aspx:

```
<%@ Page Title="" Language="vb" AutoEventWireup="false"
MasterPageFile="~/Site1.Master" CodeBehind="ViewStateExample.aspx.vb"
Inherits="vtp.ViewStateExample" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
```

ASSIGNMENT-1

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="MainContent" runat="server">

<style>

```
.form-container {  
    background-color: #fff;  
    padding: 30px 40px;  
    border-radius: 10px;  
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);  
    max-width: 500px;  
    margin: auto;  
    margin-top: 30px;  
}
```

```
.form-header {  
    font-weight: bold;  
    font-size: 18px;  
    text-align: center;  
    margin-bottom: 20px;  
    color: #007BFF;  
}
```

```
.form-group {  
    margin-bottom: 20px;  
}
```

```
.form-group label {  
    font-weight: bold;  
    display: block;
```

ASSIGNMENT-1

```
margin-bottom: 5px;
font-size: 12pt;
}

.form-group input[type="text"] {
width: 100%;
padding: 8px;
font-size: 12pt;
border-radius: 5px;
border: 1px solid #ccc;
box-sizing: border-box;
}

.form-group button {
padding: 10px 20px;
font-size: 12pt;
color: #fff;
background-color: #007BFF;
border: none;
border-radius: 5px;
cursor: pointer;
margin-right: 10px;
transition: background-color 0.3s;
}

.form-group button:hover {
background-color: #0056b3;
}
```

ASSIGNMENT-1

```
.result-label {  
    font-size: 14pt;  
    color: #333;  
    margin-top: 20px;  
}  
</style>  
  
<div class="form-container">  
    <h2 class="form-header">ViewState Example</h2>  
    <div class="form-group">  
        <label for="txtName">Enter Your Name:</label>  
        <asp:TextBox ID="txtName" runat="server"></asp:TextBox>  
    </div>  
    <div class="form-group">  
        <asp:Button ID="btnSave" runat="server" Text="Save to ViewState"  
OnClick="btnSave_Click" CssClass="btn" />  
        <asp:Button ID="btnRetrieve" runat="server" Text="Retrieve from ViewState"  
OnClick="btnRetrieve_Click" CssClass="btn" />  
    </div>  
    <asp:Label ID="lblResult" runat="server" CssClass="result-label"></asp:Label>  
</div>  
</asp:Content>
```

ViewStateExample.aspx.vb:

```
Public Class ViewStateExample  
    Inherits System.Web.UI.Page
```

ASSIGNMENT-1

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

' Save the text from txtName into ViewState

ViewState("UserName") = txtName.Text

lblResult.Text = "Name saved to ViewState."

End Sub

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

' Retrieve the saved value from ViewState and display it

If ViewState("UserName") IsNot Nothing Then

lblResult.Text = "Retrieved from ViewState: " & ViewState("UserName").ToString()

Else

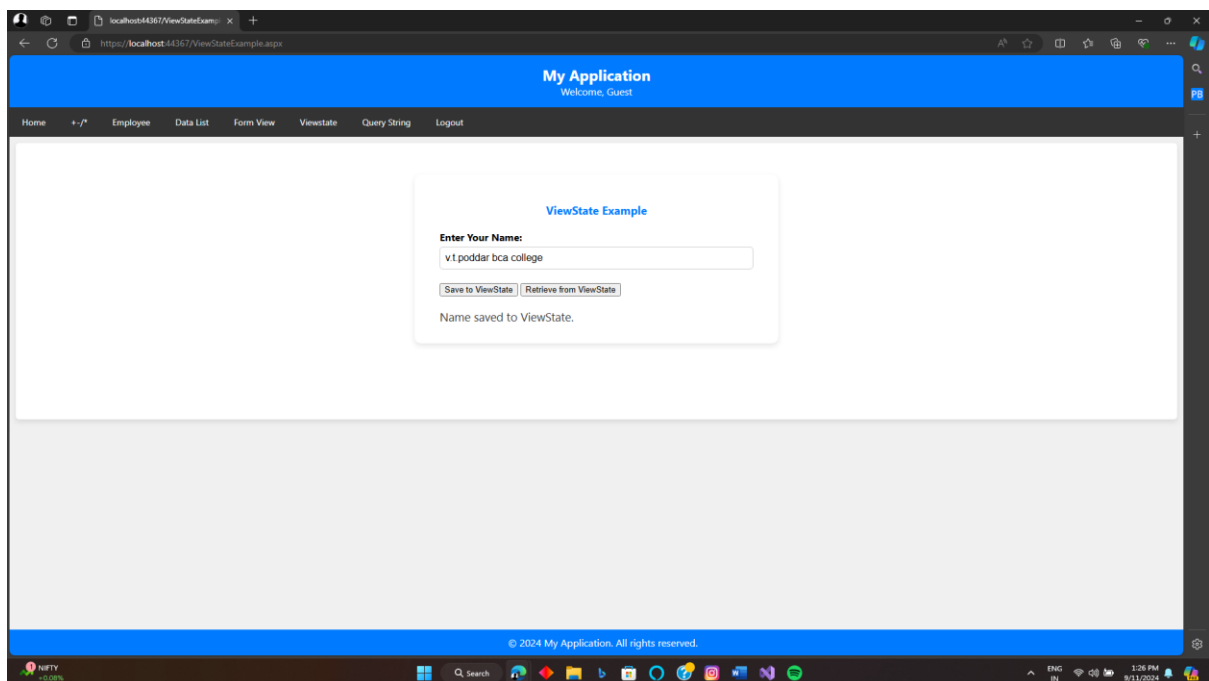
lblResult.Text = "No name found in ViewState."

End If

End Sub

End Class

Output:



ASSIGNMENT-1

9. Create a Web form to Demonstrate use of QueryString Example. Use Response.Redirect and Server.Transfer methods

ANS:

QueryStringExample.aspx:

```
<%@ Page Title="" Language="vb" AutoEventWireup="false"
MasterPageFile="~/Site1.Master" CodeBehind="QueryStringExample.aspx.vb"
Inherits="vtp.QueryStringExample" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="MainContent" runat="server">

<style>

    .form-container {

        background-color: #fff;

        padding: 30px 40px;

        border-radius: 10px;

        box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

        max-width: 500px;

        margin: auto;

        margin-top: 30px;

    }

    .form-header {

        font-weight: bold;

        font-size: 18px;

        text-align: center;

        margin-bottom: 20px;

        color: #007BFF;

    }
```

ASSIGNMENT-1

```
.form-group {  
    margin-bottom: 20px;  
}
```

```
.form-group label {  
    font-weight: bold;  
    display: block;  
    margin-bottom: 5px;  
    font-size: 12pt;  
}
```

```
.form-group input[type="text"] {  
    width: 100%;  
    padding: 8px;  
    font-size: 12pt;  
    border-radius: 5px;  
    border: 1px solid #ccc;  
    box-sizing: border-box;  
}
```

```
.form-group button {  
    padding: 10px 20px;  
    font-size: 12pt;  
    color: #fff;  
    background-color: #007BFF;  
    border: none;  
    border-radius: 5px;
```

ASSIGNMENT-1

```
cursor: pointer;
margin-right: 10px;
transition: background-color 0.3s;
}
```

```
.form-group button:hover {
    background-color: #0056b3;
}
```

</style>

<div class="form-container">

<h2 class="form-header">QueryString Example</h2>

<div class="form-group">

<label for="txtName">Enter Your Name:</label>

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

</div>

<div class="form-group">

<label for="txtAge">Enter Your Age:</label>

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

</div>

<div class="form-group">

<asp:Button ID="btnRedirect" runat="server" Text="Use Response.Redirect"
OnClick="btnRedirect_Click" CssClass="btn" />

<asp:Button ID="btnTransfer" runat="server" Text="Use Server.Transfer"
OnClick="btnTransfer_Click" CssClass="btn" />

</div>

</div>

</asp:Content>

ASSIGNMENT-1

QueryStringExample.aspx.vb:

Public Class QueryStringExample

Inherits System.Web.UI.Page

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

' Use Response.Redirect to pass data via QueryString

Dim name As String = txtName.Text

Dim age As String = txtAge.Text

Response.Redirect("QueryStringReceiver.aspx?name=" & Server.UrlEncode(name) & "&age=" & Server.UrlEncode(age))

End Sub

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

' Use Server.Transfer to pass data via QueryString

Dim name As String = txtName.Text

Dim age As String = txtAge.Text

Server.Transfer("QueryStringReceiver.aspx?name=" & Server.UrlEncode(name) & "&age=" & Server.UrlEncode(age))

End Sub

End Class

QueryStringReceiver.aspx:

<%@ Page Title="" Language="vb" AutoEventWireup="false"
MasterPageFile="~/Site1.Master" CodeBehind="QueryStringReceiver.aspx.vb"
Inherits="vtp.QueryStringReceiver" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="MainContent" runat="server">

ASSIGNMENT-1

<style>

```
.result-container {  
    background-color: #fff;  
    padding: 30px 40px;  
    border-radius: 10px;  
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);  
    max-width: 500px;  
    margin: auto;  
    margin-top: 30px;  
    text-align: center;  
}
```

```
.result-header {  
    font-weight: bold;  
    font-size: 18px;  
    margin-bottom: 20px;  
    color: #007BFF;  
}
```

```
.result-text {  
    font-size: 14pt;  
    color: #333;  
    margin-bottom: 10px;  
}
```

</style>

<div class="result-container">

<h2 class="result-header">Received Data from QueryString</h2>

ASSIGNMENT-1

```
<asp:Label ID="lblName" runat="server" CssClass="result-text"></asp:Label><br />
<asp:Label ID="lblAge" runat="server" CssClass="result-text"></asp:Label>
</div>
</asp:Content>
```

QueryStringReceiver.aspx.vb:

Public Class QueryStringReceiver

Inherits System.Web.UI.Page

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

' Read data from QueryString and display it

If Not IsPostBack Then

If Request.QueryString("name") IsNot Nothing Then

lblName.Text = "Name: " & Server.UrlDecode(Request.QueryString("name"))

End If

If Request.QueryString("age") IsNot Nothing Then

lblAge.Text = "Age: " & Server.UrlDecode(Request.QueryString("age"))

End If

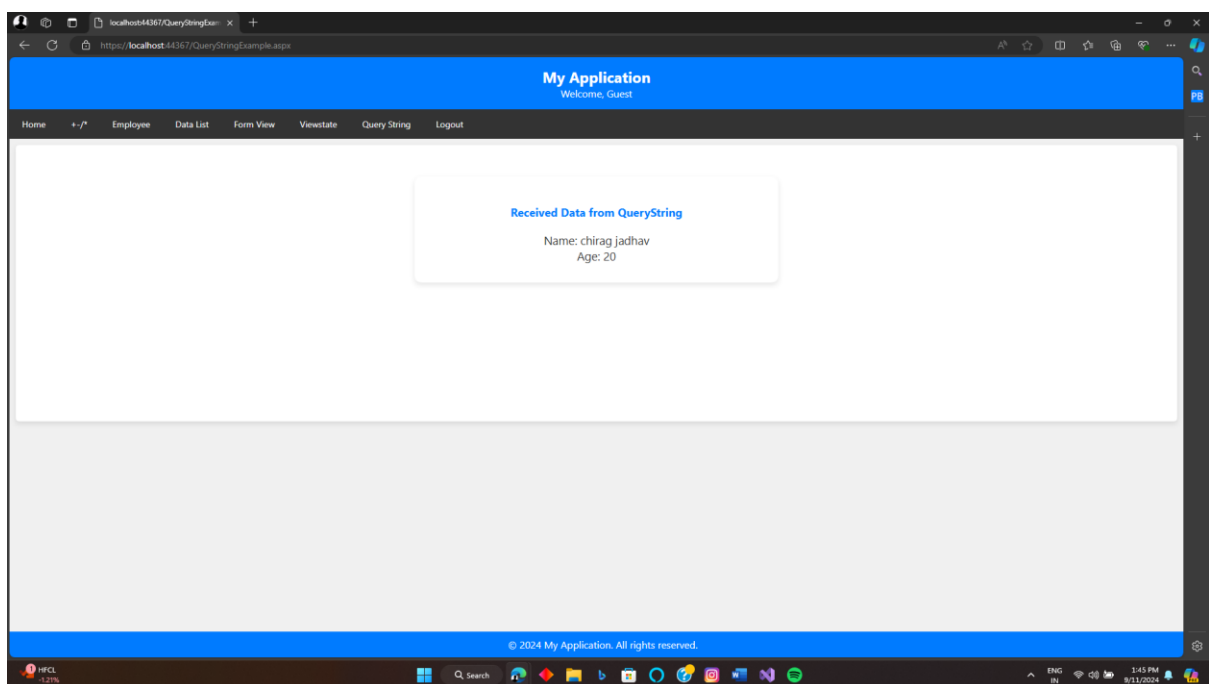
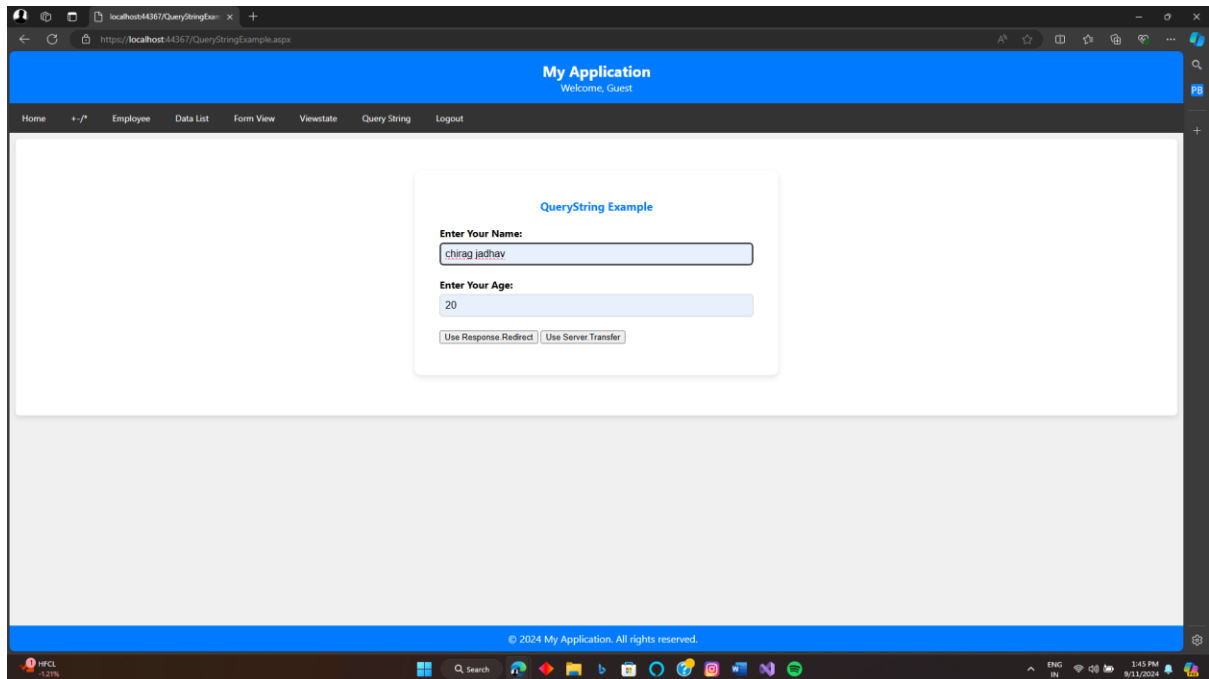
End If

End Sub

End Class

Output:

ASSIGNMENT-1



10. Develop a web form that will keep the records of visitors I museum that save the visitors information such as Name, Gender, Time of visit, date of visit and contact no. Display all visitors data in gridview control order by date of visited and give search record using contact no.

ANS:

Visitors.aspx:

ASSIGNMENT-1

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Visitors.aspx.vb"
Inherits="vtp.Visitors" %>
```

```
<!DOCTYPE html>
```

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

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

```
<title>Museum Visitor Records</title>
```

```
<style>
```

```
body {
```

```
font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
```

```
background-color: #f0f0f0;
```

```
margin: 0;
```

```
padding: 0;
```

```
}
```

```
.form-container {
```

```
background-color: #fff;
```

```
padding: 30px 40px;
```

```
border-radius: 10px;
```

```
box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
```

```
max-width: 600px;
```

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

```
}
```

```
.form-header {
```

```
font-weight: bold;
```

```
font-size: 18px;
```

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


ASSIGNMENT-1

```
margin-bottom: 20px;  
color: #007BFF;  
}
```

```
.form-group {  
    margin-bottom: 20px;  
}
```

```
.form-group label {  
    font-weight: bold;  
    display: block;  
    margin-bottom: 5px;  
    font-size: 12pt;  
}
```

```
.form-group input[type="text"], .form-group select {  
    width: 100%;  
    padding: 8px;  
    font-size: 12pt;  
    border-radius: 5px;  
    border: 1px solid #ccc;  
    box-sizing: border-box;  
}
```

```
.form-group button {  
    padding: 10px 20px;  
    font-size: 12pt;  
    color: #fff;
```

ASSIGNMENT-1

```
background-color: #007BFF;
border: none;
border-radius: 5px;
cursor: pointer;
margin-right: 10px;
transition: background-color 0.3s;
}

.form-group button:hover {
background-color: #0056b3;
}

.grid-container {
max-width: 800px;
margin: 30px auto;
background-color: #fff;
padding: 20px;
border-radius: 10px;
box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
}

.search-container {
max-width: 600px;
margin: 30px auto;
text-align: center;
}

.grid-view {
```

ASSIGNMENT-1

```
width: 100%;  
border-collapse: collapse;  
}
```

```
.grid-view th, .grid-view td {  
    padding: 10px;  
    border: 1px solid #ddd;  
    text-align: left;  
}
```

```
.grid-view th {  
    background-color: #007BFF;  
    color: white;  
}
```

```
.grid-view tr:nth-child(even) {  
    background-color: #f2f2f2;  
}
```

```
.error-label {  
    color: red;  
    font-size: 12pt;  
}
```

</style>

</head>

<body>

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

<div class="form-container">

ASSIGNMENT-1

```
<h2 class="form-header">Visitor Information</h2>

<div class="form-group">

    <label for="txtName">Name:</label>

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

    <asp:RequiredFieldValidator ID="rfvName" runat="server"
ControlToValidate="txtName" ErrorMessage="Name is required." ForeColor="Red"
Display="Dynamic" />

</div>

<div class="form-group">

    <label for="ddlGender">Gender:</label>

    <asp:DropDownList ID="ddlGender" runat="server">

        <asp:ListItem Text="Select Gender" Value=""></asp:ListItem>
        <asp:ListItem Text="Male" Value="Male"></asp:ListItem>
        <asp:ListItem Text="Female" Value="Female"></asp:ListItem>
        <asp:ListItem Text="Other" Value="Other"></asp:ListItem>

    </asp:DropDownList>

    <asp:RequiredFieldValidator ID="rfvGender" runat="server"
ControlToValidate="ddlGender" InitialValue="" ErrorMessage="Gender is required."
ForeColor="Red" Display="Dynamic" />

</div>

<div class="form-group">

    <label for="txtTimeOfVisit">Time of Visit:</label>

    <asp:TextBox ID="txtTimeOfVisit" runat="server" TextMode="Time"
placeholder="HH:mm"></asp:TextBox>

    <asp:RequiredFieldValidator ID="rfvTimeOfVisit" runat="server"
ControlToValidate="txtTimeOfVisit" ErrorMessage="Time of Visit is required."
ForeColor="Red" Display="Dynamic" />

</div>

<div class="form-group">

    <label for="txtDateOfVisit">Date of Visit:</label>
```

ASSIGNMENT-1

```
<asp:TextBox ID="txtDateOfVisit" runat="server" TextMode="Date"
placeholder="yyyy-MM-dd"></asp:TextBox>
```

```
<asp:RequiredFieldValidator ID="rfvDateOfVisit" runat="server"
ControlToValidate="txtDateOfVisit" ErrorMessage="Date of Visit is required."
ForeColor="Red" Display="Dynamic" />
```

```
</div>
```

```
<div class="form-group">
```

```
<label for="txtContactNo">Contact No:</label>
```

```
<asp:TextBox ID="txtContactNo" runat="server"></asp:TextBox>
```

```
<asp:RequiredFieldValidator ID="rfvContactNo" runat="server"
ControlToValidate="txtContactNo" ErrorMessage="Contact No is required."
ForeColor="Red" Display="Dynamic" />
```

```
</div>
```

```
<div class="form-group">
```

```
<asp:Button ID="btnAddVisitor" runat="server" Text="Add Visitor"
OnClick="btnAddVisitor_Click" CssClass="btn" />
```

```
<br />
```

```
<asp:Label ID="lblError" runat="server" CssClass="error-label" />
```

```
</div>
```

```
</div>
```

```
<div class="search-container">
```

```
<label for="txtSearchContact">Search by Contact No:</label>
```

```
<asp:TextBox ID="txtSearchContact" runat="server"></asp:TextBox>
```

```
<asp:Button ID="btnSearch" runat="server" Text="Search"
OnClick="btnSearch_Click" CssClass="btn" />
```

```
</div>
```

```
<div class="grid-container">
```

ASSIGNMENT-1

```
<asp:GridView ID="gvVisitors" runat="server" AutoGenerateColumns="False"
AllowPaging="True" PageSize="5" OnPageIndexChanging="gvVisitors_PageIndexChanging"
CssClass="grid-view">
```

```
<Columns>
```

```
<asp:BoundField DataField="Name" HeaderText="Name" />
```

```
<asp:BoundField DataField="Gender" HeaderText="Gender" />
```

```
<asp:BoundField DataField="TimeOfVisit" HeaderText="Time of Visit"
DataFormatString="{0:HH:mm}" />
```

```
<asp:BoundField DataField="DateOfVisit" HeaderText="Date of Visit"
DataFormatString="{0:yyyy-MM-dd}" />
```

```
<asp:BoundField DataField="ContactNo" HeaderText="Contact No" />
```

```
</Columns>
```

```
</asp:GridView>
```

```
</div>
```

```
</form>
```

```
</body>
```

```
</html>
```

Visitors.aspx.vb:

Imports System.Data.SqlClient

Public Class Visitors

Inherits System.Web.UI.Page

```
Private connectionString As String = "Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=temp;Integrated Security=True;Connect
Timeout=30;Encrypt=False;TrustServerCertificate=False;" ' Replace with your actual
connection string
```

ASSIGNMENT-1

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

If Not IsPostBack Then

BindGridView()

End If

End Sub

Private Sub BindGridView()

Try

Using conn As New SqlConnection(connectionString)

Using cmd As New SqlCommand("SELECT Name, Gender, TimeOfVisit, DateOfVisit, ContactNo FROM Visitors ORDER BY DateOfVisit DESC", conn)

conn.Open()

Dim dt As New DataTable()

Dim adapter As New SqlDataAdapter(cmd)

adapter.Fill(dt)

' Debugging: Check the contents of DataTable

For Each row As DataRow In dt.Rows

Console.WriteLine("Name: {0}, Gender: {1}, TimeOfVisit: {2}, DateOfVisit: {3}, ContactNo: {4}",

row("Name"), row("Gender"), row("TimeOfVisit"), row("DateOfVisit"), row("ContactNo"))

Next

gvVisitors.DataSource = dt

gvVisitors.DataBind()

End Using

End Using

Catch ex As FormatException

ASSIGNMENT-1

lblError.Text = "Data format error: " & ex.Message

lblError.ForeColor = System.Drawing.Color.Red

Catch ex As Exception

lblError.Text = "An unexpected error occurred: " & ex.Message

lblError.ForeColor = System.Drawing.Color.Red

End Try

End Sub

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

Try

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

Dim gender As String = ddlGender.SelectedValue

Dim timeOfVisit As String = txtTimeOfVisit.Text.Trim()

Dim dateOfVisit As String = txtDateOfVisit.Text.Trim()

Dim contactNo As String = txtContactNo.Text.Trim()

Using conn As New SqlConnection(connectionString)

Using cmd As New SqlCommand("INSERT INTO Visitors (Name, Gender, TimeOfVisit, DateOfVisit, ContactNo) VALUES (@Name, @Gender, @TimeOfVisit, @DateOfVisit, @ContactNo)", conn)

cmd.Parameters.AddWithValue("@Name", name)

cmd.Parameters.AddWithValue("@Gender", gender)

cmd.Parameters.AddWithValue("@TimeOfVisit", timeOfVisit)

cmd.Parameters.AddWithValue("@DateOfVisit", dateOfVisit)

cmd.Parameters.AddWithValue("@ContactNo", contactNo)

conn.Open()

cmd.ExecuteNonQuery()

End Using

ASSIGNMENT-1

End Using

' Clear form and re-bind grid

txtName.Text = ""

ddlGender.SelectedIndex = 0

txtTimeOfVisit.Text = ""

txtDateOfVisit.Text = ""

txtContactNo.Text = ""

BindGridView()

Catch ex As FormatException

lblError.Text = "Data format error: " & ex.Message

lblError.ForeColor = System.Drawing.Color.Red

Catch ex As Exception

lblError.Text = "An unexpected error occurred: " & ex.Message

lblError.ForeColor = System.Drawing.Color.Red

End Try

End Sub

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

Try

Dim contactNo As String = txtSearchContact.Text.Trim()

Using conn As New SqlConnection(connectionString)

Using cmd As New SqlCommand("SELECT Name, Gender, TimeOfVisit,
DateOfVisit, ContactNo FROM Visitors WHERE ContactNo LIKE @ContactNo ORDER BY
DateOfVisit DESC", conn)

cmd.Parameters.AddWithValue("@ContactNo", "%" & contactNo & "%")

ASSIGNMENT-1

conn.Open()

Dim dt As New DataTable()

Dim adapter As New SqlDataAdapter(cmd)

adapter.Fill(dt)

gvVisitors.DataSource = dt

gvVisitors.DataBind()

End Using

End Using

Catch ex As FormatException

lblError.Text = "Data format error: " & ex.Message

lblError.ForeColor = System.Drawing.Color.Red

Catch ex As Exception

lblError.Text = "An unexpected error occurred: " & ex.Message

lblError.ForeColor = System.Drawing.Color.Red

End Try

End Sub

Protected Sub gvVisitors_PageIndexChanging(ByVal sender As Object, ByVal e As GridViewPageEventArgs)

gvVisitors.PageIndex = e.NewPageIndex

BindGridView()

End Sub

End Class

Visitors table:

ASSIGNMENT-1

| | VisitorID | Name | Gender | TimeOfVisit | DateOfVisit | ContactNo |
|---|-----------|---------------|--------|-------------|-------------|------------|
| ▶ | 8 | chirag jadhav | Male | 02:14 | 2024-09-10 | 9913772148 |
| | 9 | patel jay | Male | 05:14 | 2024-09-05 | 8567425985 |
| | 10 | kunal | Male | 13:15 | 2024-09-11 | 9568752685 |
| | 11 | Akshay | Male | 03:17 | 2024-09-11 | 9682137569 |
| ⚙ | NULL | NULL | NULL | NULL | NULL | NULL |

Output:

The screenshot shows a web browser window with the URL `https://localhost:44367/Visitors.aspx`. The page displays a 'Visitor Information' form with the following fields: Name (text input), Gender (dropdown menu with 'Select Gender' selected), Time of Visit (time picker), Date of Visit (date picker), and Contact No (text input). Below the form is an 'Add Visitor' button. Underneath the form is a search bar labeled 'Search by Contact No:' with a 'Search' button. At the bottom, there is a table displaying visitor records:

| Name | Gender | Time of Visit | Date of Visit | Contact No |
|---------------|--------|---------------|---------------|------------|
| kunal | Male | 13:15 | 2024-09-11 | 9568752685 |
| Akshay | Male | 03:17 | 2024-09-11 | 9682137569 |
| chirag jadhav | Male | 02:14 | 2024-09-10 | 9913772148 |
| patel jay | Male | 05:14 | 2024-09-05 | 8567425985 |

11. Develop a e-commerce website for shoes. Use session and cookies. Provide facility Signup, Login and order a product.

ANS:

Signup.aspx:

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Signup.aspx.vb" Inherits="vtp.Signup" %>
```

```
<!DOCTYPE html>
```

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

ASSIGNMENT-1

```
<head runat="server">
    <title>Signup</title>
    <link rel="stylesheet" type="text/css" href="StyleSheet2.css">
</head>
<body>
    <div class="container">
        <h2>Signup</h2>
        <form id="form1" runat="server">
            <asp:TextBox ID="txtUsername" runat="server" Placeholder="Username" />
            <asp:TextBox ID="txtEmail" runat="server" Placeholder="Email" />
            <asp:TextBox ID="txtPassword" runat="server" TextMode="Password"
Placeholder="Password" />
            <asp:Button ID="btnSignup" runat="server" Text="Signup"
OnClick="btnSignup_Click" Height="33px" />
        </form>
    </div>
</body>
</html>
```

Signup.aspx.vb:

Imports System.Data.SqlClient

Imports System.Security.Cryptography

Imports System.Text

Public Class Signup

Inherits System.Web.UI.Page

ASSIGNMENT-1

Protected Sub btnSignup_Click(sender As Object, e As EventArgs) Handles btnSignup.Click

' Corrected connection string

Dim connString As String = "Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=e-commerce;Integrated Security=True;Connect Timeout=30;Encrypt=False"

Using conn As New SqlConnection(connString)

conn.Open()

Dim passwordHash As String = GetHashedPassword(txtPassword.Text)

Dim cmd As New SqlCommand("INSERT INTO Users (Username, Email, PasswordHash) VALUES (@Username, @Email, @PasswordHash)", conn)

cmd.Parameters.AddWithValue("@Username", txtUsername.Text)

cmd.Parameters.AddWithValue("@Email", txtEmail.Text)

cmd.Parameters.AddWithValue("@PasswordHash", passwordHash)

cmd.ExecuteNonQuery()

End Using

End Sub

Private Function GetHashedPassword(password As String) As String

Using sha256 As SHA256 = SHA256.Create()

Dim bytes As Byte() = sha256.ComputeHash(Encoding.UTF8.GetBytes(password))

Dim builder As New StringBuilder()

For Each b As Byte In bytes

builder.Append(b.ToString("x2"))

Next

Return builder.ToString()

End Using

End Function

End Class

ASSIGNMENT-1

User_login.aspx:

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="User_Login.aspx.vb"
Inherits="vtp.User_Login" %>
```

```
<!DOCTYPE html>
```

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

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

```
<title>Login</title>
```

```
<link rel="stylesheet" type="text/css" href="StyleSheet2.css">
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
<h2>Login</h2>
```

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

```
<asp:TextBox ID="txtUsername" runat="server" Placeholder="Username" />
```

```
<asp:TextBox ID="txtPassword" runat="server" TextMode="Password"
Placeholder="Password" />
```

```
<asp:CheckBox ID="chkRememberMe" runat="server" Text="Remember me" />
```

```
<asp:Button ID="btnLogin" runat="server" Text="Login" OnClick="btnLogin_Click"
Height="33px" />
```

```
<a href="Signup.aspx">sign up</a>
```

```
</form>
```

```
</div>
```

```
</html>
```

User_login.aspx.vb:

ASSIGNMENT-1

Imports System.Data.SqlClient

Imports System.Security.Cryptography

Public Class User_Login

Inherits System.Web.UI.Page

Protected Sub btnLogin_Click(sender As Object, e As EventArgs) Handles btnLogin.Click

Dim connString As String = "Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=e-commerce;Integrated Security=True;Connect Timeout=30;Encrypt=False"

Using conn As New SqlConnection(connString)

conn.Open()

Dim passwordHash As String = GetHashedPassword(txtPassword.Text)

Dim cmd As New SqlCommand("SELECT UserID FROM Users WHERE Username = @Username AND PasswordHash = @PasswordHash", conn)

cmd.Parameters.AddWithValue("@Username", txtUsername.Text)

cmd.Parameters.AddWithValue("@PasswordHash", passwordHash)

Dim result As Object = cmd.ExecuteScalar()

If result IsNot Nothing Then

' Login successful

Dim userId As Integer = Convert.ToInt32(result)

Session("UserID") = userId

If chkRememberMe.Checked Then

Dim userCookie As New HttpCookie("UserID", userId.ToString())

userCookie.Expires = DateTime.Now.AddDays(7)

Response.Cookies.Add(userCookie)

End If

ASSIGNMENT-1

```
Response.Redirect("Products.aspx")
```

```
Else
```

```
    ' Login failed
```

```
    Response.Write("Invalid username or password.")
```

```
End If
```

```
End Using
```

```
End Sub
```

```
Private Function GetHashedPassword(password As String) As String
```

```
    Using sha256 As SHA256 = SHA256.Create()
```

```
        Dim bytes As Byte() = sha256.ComputeHash(Encoding.UTF8.GetBytes(password))
```

```
        Dim builder As New StringBuilder()
```

```
        For Each b As Byte In bytes
```

```
            builder.Append(b.ToString("x2"))
```

```
        Next
```

```
        Return builder.ToString()
```

```
    End Using
```

```
End Function
```

```
End Class
```

Products.aspx:

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Products.aspx.vb"  
Inherits="vtp.Products" %>
```

```
<!DOCTYPE html>
```

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

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


ASSIGNMENT-1

```
<title>Products</title>
```

```
<style>
```

```
  body {
```

```
    font-family: Arial, sans-serif;
```

```
    background-color: #f4f4f4;
```

```
    margin: 0;
```

```
    padding: 0;
```

```
  }
```

```
  .container {
```

```
    width: 90%;
```

```
    margin: auto;
```

```
    overflow: hidden;
```

```
    background: #fff;
```

```
    padding: 20px;
```

```
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
```

```
    margin-top: 50px;
```

```
  }
```

```
  .header {
```

```
    display: flex;
```

```
    justify-content: space-between;
```

```
    align-items: center;
```

```
    border-bottom: 2px solid #ddd;
```

```
    padding-bottom: 10px;
```

```
    margin-bottom: 20px;
```

```
  }
```

ASSIGNMENT-1

```
.header-title {  
    font-size: 1.8em;  
    color: #333;  
    margin: 0;  
}
```

```
.header-username {  
    font-size: 1em;  
    color: #666;  
}
```

```
.product-list {  
    display: grid;  
    grid-template-columns: repeat(auto-fill, minmax(250px, 1fr)); /* Responsive  
columns */  
    gap: 20px;  
}
```

```
.product-item {  
    background: #fff;  
    border-radius: 8px;  
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);  
    overflow: hidden;  
    transition: box-shadow 0.3s ease, transform 0.3s ease;  
    text-align: center;  
    padding: 10px;  
    display: flex;  
    flex-direction: column;  
    align-items: center;
```

ASSIGNMENT-1

```
border: 1px solid #ddd; /* Border to simulate table cell */  
}
```

```
.product-item img {  
  width: 100%;  
  height: 200px; /* Set a fixed height for images */  
  object-fit: cover;  
  transition: transform 0.3s ease, filter 0.3s ease;  
}
```

```
.product-item:hover {  
  box-shadow: 0 8px 16px rgba(0, 0, 0, 0.2);  
  transform: translateY(-5px);  
}
```

```
.product-item:hover img {  
  transform: scale(1.05);  
  filter: grayscale(50%);  
}
```

```
.product-item h3 {  
  font-size: 1.2em;  
  margin: 10px 0;  
  color: #333;  
  text-transform: uppercase;  
  letter-spacing: 1px;  
}
```

ASSIGNMENT-1

```
.product-item p {  
    color: #666;  
    line-height: 1.4;  
    margin: 0 0 10px;  
}
```

```
.order-button {  
    background: #28a745;  
    border: none;  
    color: #fff;  
    padding: 10px 20px;  
    border-radius: 5px;  
    cursor: pointer;  
    font-size: 14px;  
    transition: background 0.3s ease, transform 0.3s ease;  
    margin-top: auto; /* Pushes the button to the bottom of the container */  
}
```

```
.order-button:hover {  
    background: #218838;  
    transform: scale(1.05);  
}
```

```
@media (max-width: 768px) {  
    .container {  
        width: 95%;  
        padding: 10px;  
    }  
}
```

ASSIGNMENT-1

```
.product-list {
    grid-template-columns: 1fr; /* Single column on small screens */
}

.order-button {
    padding: 8px 16px;
    font-size: 14px;
}
}
</style>
</head>
<body>
    <form id="form1" runat="server">
        <div class="container">
            <div class="header">
                <h1 class="header-title">Available Shoes</h1>
                <div class="header-username">
                    Welcome, <%# UserName %>!
                </div>
            </div>
            <div class="product-list">
                <asp:Repeater ID="rptProducts" runat="server">
                    <ItemTemplate>
                        <div class="product-item">
                            <img src='<%# ResolveUrl("~/ " + Eval("ImageUrl").ToString()) %>' alt='<%#
Eval("ProductName") %>' />
                            <h3><%# Eval("ProductName") %></h3>
                            <p><%# Eval("Description") %></p>
                        </div>
                    </ItemTemplate>
                </asp:Repeater>
            </div>
        </div>
    </form>
</body>
</html>
```

ASSIGNMENT-1

```
<p>Price: $<%# Eval("Price") %></p>

<asp:Button ID="btnOrder" runat="server" Text="Order"
CommandArgument='<%# Eval("ProductID") %>' OnClick="btnOrder_Click"
CssClass="order-button" />

</div>

</ItemTemplate>

</asp:Repeater>

</div>

</div>

</form>

</body>

</html>
```

Product.aspx.vb:

Imports System.Data.SqlClient

Public Class Products

Inherits System.Web.UI.Page

Public ReadOnly Property UserName As String

Get

' Check if the session contains the user ID

If Session("UserID") IsNot Nothing Then

Dim userId As Integer = Convert.ToInt32(Session("UserID"))

Return GetUserName(userId)

Else

Return "Guest"

End If

ASSIGNMENT-1

End Get

End Property

Private Function GetUserName(userId As Integer) As String

Dim connString As String = "Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=e-commerce;Integrated Security=True;Connect Timeout=30;Encrypt=False"

Using conn As New SqlConnection(connString)

conn.Open()

Dim cmd As New SqlCommand("SELECT Username FROM Users WHERE UserID = @UserID", conn)

cmd.Parameters.AddWithValue("@UserID", userId)

Dim result As Object = cmd.ExecuteScalar()

If result IsNot Nothing Then

Return result.ToString()

Else

Return "Guest"

End If

End Using

End Function

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

If Not IsPostBack Then

LoadProducts()

End If

End Sub

Private Sub LoadProducts()

Dim connString As String = "Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=e-commerce;Integrated Security=True;Connect Timeout=30;Encrypt=False"

ASSIGNMENT-1

Using conn As New SqlConnection(connString)

conn.Open()

Dim cmd As New SqlCommand("SELECT * FROM Products", conn)

Dim reader As SqlDataReader = cmd.ExecuteReader()

rptProducts.DataSource = reader

rptProducts.DataBind()

End Using

End Sub

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

Dim productId As Integer = Convert.ToInt32(CType(sender, Button).CommandArgument)

Dim userId As Integer = Convert.ToInt32(Session("UserID"))

Dim connString As String = "Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=e-commerce;Integrated Security=True;Connect Timeout=30;Encrypt=False"

Using conn As New SqlConnection(connString)

conn.Open()

Dim cmd As New SqlCommand("INSERT INTO Orders (UserID, ProductID, Quantity) OUTPUT INSERTED.OrderID VALUES (@UserID, @ProductID, 1)", conn)

cmd.Parameters.AddWithValue("@UserID", userId)

cmd.Parameters.AddWithValue("@ProductID", productId)

Dim orderId As Integer = Convert.ToInt32(cmd.ExecuteScalar())

Response.Redirect("OrderConfirmation.aspx?OrderID=" & orderId)

End Using

End Sub

End Class

ASSIGNMENT-1

OrderConfirmation.aspx:

```
<%@ Page Language="vb" AutoEventWireup="false"
CodeBehind="OrderConfirmation.aspx.vb" Inherits="vtp.OrderConfirmation" %>

<!DOCTYPE html>

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

<head runat="server">

    <title>Order Confirmation</title>

    <link rel="stylesheet" type="text/css" href="StyleSheet2.css">

</head>

<body>

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

        <div class="container">

            <h2>Order Confirmation</h2>

            <asp:Literal ID="litOrderDetails" runat="server"></asp:Literal>

            <asp:Button ID="btnContinueShopping" runat="server" Text="Continue Shopping"
PostBackUrl="Products.aspx" />

        </div>

    </form>

</body>

</html>
```

OrderConfirmation.aspx.vb:

Imports System.Data.SqlClient

Public Class OrderConfirmation

ASSIGNMENT-1

Inherits System.Web.UI.Page

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

 If Not IsPostBack Then

 DisplayOrderDetails()

 End If

End Sub

Private Sub DisplayOrderDetails()

 Dim connString As String = "Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=e-commerce;Integrated Security=True;Connect Timeout=30;Encrypt=False"

 Dim userId As Integer = Convert.ToInt32(Session("UserID"))

 Dim orderId As Integer = Convert.ToInt32(Request.QueryString("OrderID"))

 Using conn As New SqlConnection(connString)

 conn.Open()

 Dim cmd As New SqlCommand("SELECT p.ProductName, o.Quantity, p.Price FROM Orders o JOIN Products p ON o.ProductID = p.ProductID WHERE o.OrderID = @OrderID AND o.UserID = @UserID", conn)

 cmd.Parameters.AddWithValue("@OrderID", orderId)

 cmd.Parameters.AddWithValue("@UserID", userId)

 Dim reader As SqlDataReader = cmd.ExecuteReader()

 Dim orderDetails As New StringBuilder()

 If reader.HasRows Then

 orderDetails.Append("<h3>Order Details:</h3>")

 orderDetails.Append("<table><tr><th>Product Name</th><th>Quantity</th><th>Price</th><th>Total</th></tr>")

ASSIGNMENT-1

Dim totalAmount As Decimal = 0

While reader.Read()

Dim productName As String = reader("ProductName").ToString()

Dim quantity As Integer = Convert.ToInt32(reader("Quantity"))

Dim price As Decimal = Convert.ToDecimal(reader("Price"))

Dim total As Decimal = quantity * price

totalAmount += total

orderDetails.AppendFormat("<tr><td>{0}</td><td>{1}</td><td>\${2}</td><td>\${3}</td></tr>", productName, quantity, price, total)

End While

orderDetails.AppendFormat("<tr><td colspan='3'>Total Amount</td><td>\${0}</td></tr>", totalAmount)

orderDetails.Append("</table>")

Else

orderDetails.Append("<p>No details found for this order.</p>")

End If

litOrderDetails.Text = orderDetails.ToString()

End Using

End Sub

End Class

StyleSheet2.css:

body {

font-family: Arial, sans-serif;

ASSIGNMENT-1

```
background-color: #f4f4f4;
margin: 0;
padding: 0;
}
```

```
.container {
width: 80%;
margin: auto;
overflow: hidden;
background: #fff;
padding: 20px;
box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
margin-top: 50px;
}
```

```
h2 {
text-align: center;
color: #333;
}
```

```
form {
display: flex;
flex-direction: column;
}
```

```
input[type="text"], input[type="password"] {
padding: 10px;
margin: 10px 0;
```

ASSIGNMENT-1

```
border: 1px solid #ddd;  
border-radius: 5px;  
}
```

```
button {  
    padding: 10px;  
    border: none;  
    border-radius: 5px;  
    background-color: #28a745;  
    color: #fff;  
    cursor: pointer;  
}
```

```
button:hover {  
    background-color: #218838;  
}
```

```
.product-item {  
    background: #fff;  
    border-radius: 8px;  
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);  
    overflow: hidden;  
    margin: 15px;  
    transition: box-shadow 0.3s ease, transform 0.3s ease;  
}
```

```
.product-item img {  
    width: 200px;
```

ASSIGNMENT-1

```
height: 200px;  
transition: transform 0.3s ease, filter 0.3s ease;  
}
```

```
.product-item:hover {  
    box-shadow: 0 8px 16px rgba(0, 0, 0, 0.2);  
    transform: translateY(-5px);  
}
```

```
.product-item:hover img {  
    transform: scale(1.1);  
    filter: grayscale(50%);  
}
```

```
.product-item h3 {  
    font-size: 1.2em;  
    margin: 10px 0;  
    color: #333;  
    text-transform: uppercase;  
    letter-spacing: 1px;  
}
```

```
.product-item p {  
    color: #666;  
    line-height: 1.4;  
}
```

```
.order-button {
```

ASSIGNMENT-1

```
background: #28a745;
border: none;
color: #fff;
padding: 10px 20px;
border-radius: 5px;
cursor: pointer;
font-size: 16px;
transition: background 0.3s ease, transform 0.3s ease;
}
```

```
.order-button:hover {
    background: #218838;
    transform: scale(1.05);
}
```

```
@media (max-width: 768px) {
    .container {
        width: 95%;
        padding: 10px;
    }
}
```

```
.product-item {
    margin: 10px 0;
    width: 100%;
}
```

```
.product-item img {
    width: 100%;
}
```

ASSIGNMENT-1

```
height: auto;  
}
```

```
.order-button {  
padding: 8px 16px;  
font-size: 14px;  
}  
}
```

/ Loading spinner for product loading */*

```
.loading-spinner {  
border: 4px solid rgba(0, 0, 0, 0.1);  
border-radius: 50%;  
border-top: 4px solid #28a745;  
width: 40px;  
height: 40px;  
animation: spin 1s linear infinite;  
margin: auto;  
display: block;  
}
```

```
@keyframes spin {  
0% {  
transform: rotate(0deg);  
}  
  
100% {  
transform: rotate(360deg);  
}
```


ASSIGNMENT-1

}

}

Tables:

ASSIGNMENT-1

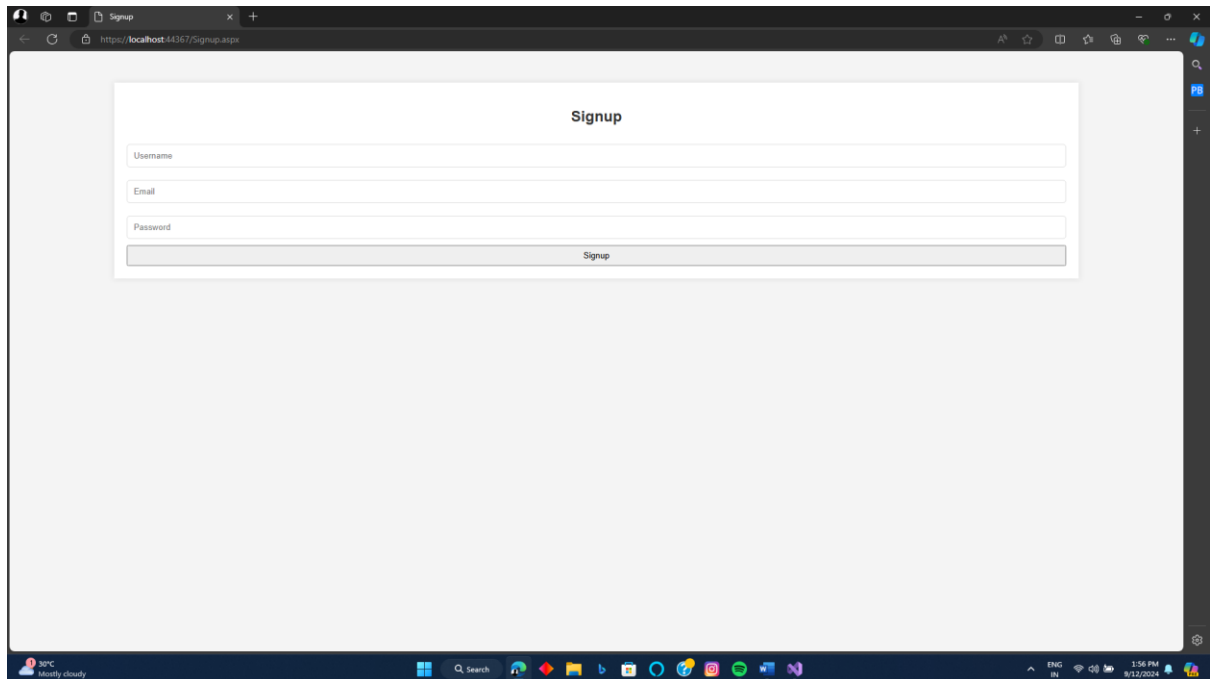
| | UserID | Username | PasswordHash | Email |
|---|--------|---------------|------------------|-------------------|
| ▶ | 1 | chirag jadhav | 8b7293f6dd938... | jadhavchirag48... |
| | 2 | kunal | f5cb9433ec112... | kunal123@gma... |
| | 3 | hitesh | fdd528d8e5d66... | hitesh54@gmai... |
| | 4 | Akshay | 6e33209b80194... | Akshay32@gm... |
| ⚙ | NULL | NULL | NULL | NULL |

| | ProductID | ProductName | Price | Description | ImageURL |
|---|-----------|--------------------|-------|---------------------|-------------|
| ▶ | 1 | Running Shoes | 59.99 | Comfortable ru... | image/1.jpg |
| | 2 | Casual Sneakers | 45.50 | Stylish casual s... | image/2.jpg |
| | 3 | Formal Leather ... | 89.99 | Elegant formal l... | image/3.jpg |
| | 4 | Sports Sandals | 34.99 | Lightweight sp... | image/4.jpg |
| | 5 | High-Top Sne... | 79.99 | Trendy high-to... | image/5.jpg |
| | 6 | Winter Boots | 99.99 | Warm winter b... | image/6.jpg |
| | 7 | Casual Loafers | 39.99 | Comfortable lo... | image/7.jpg |
| | 8 | High Heels | 89.99 | Elegant high he... | image/8.jpg |
| ⚙ | NULL | NULL | NULL | NULL | NULL |

| | OrderID | UserID | ProductID | OrderDate | Quantity |
|---|---------|--------|-----------|--------------------|----------|
| ▶ | 1 | 2 | 6 | 9/12/2024 1:09:... | 1 |
| | 2 | 2 | 5 | 9/12/2024 1:09:... | 1 |
| ⚙ | NULL | NULL | NULL | NULL | NULL |

Output:

ASSIGNMENT-1



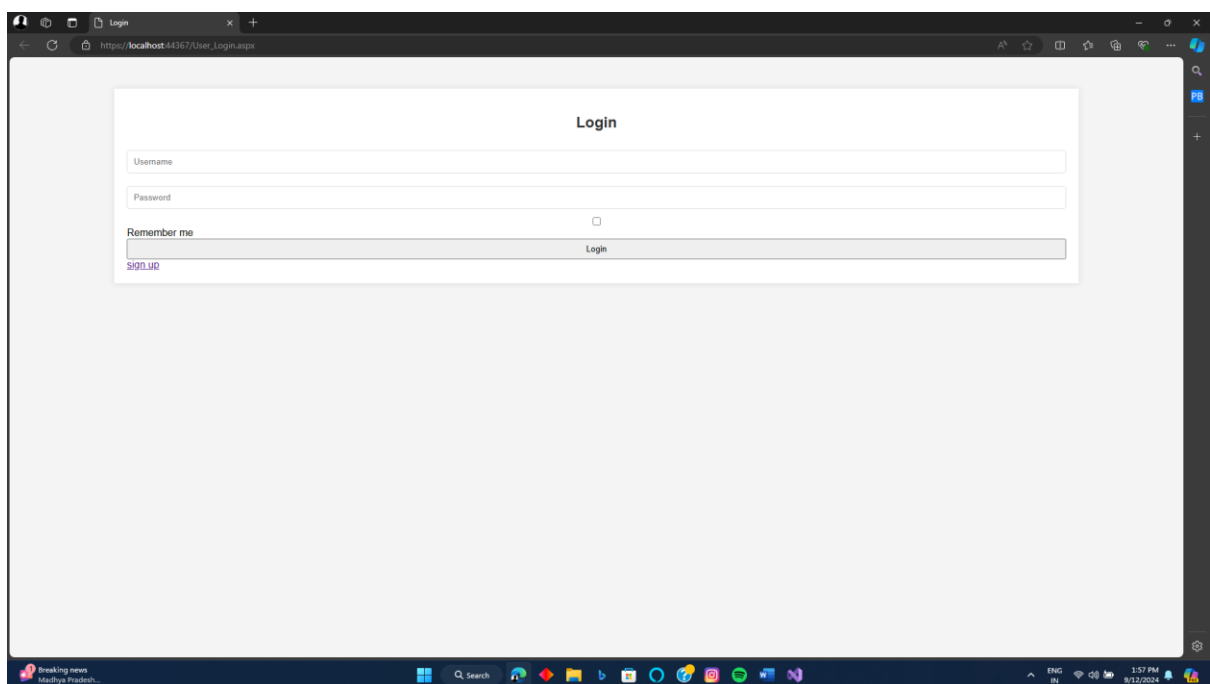
Signup

Username

Email

Password

Signup



Login

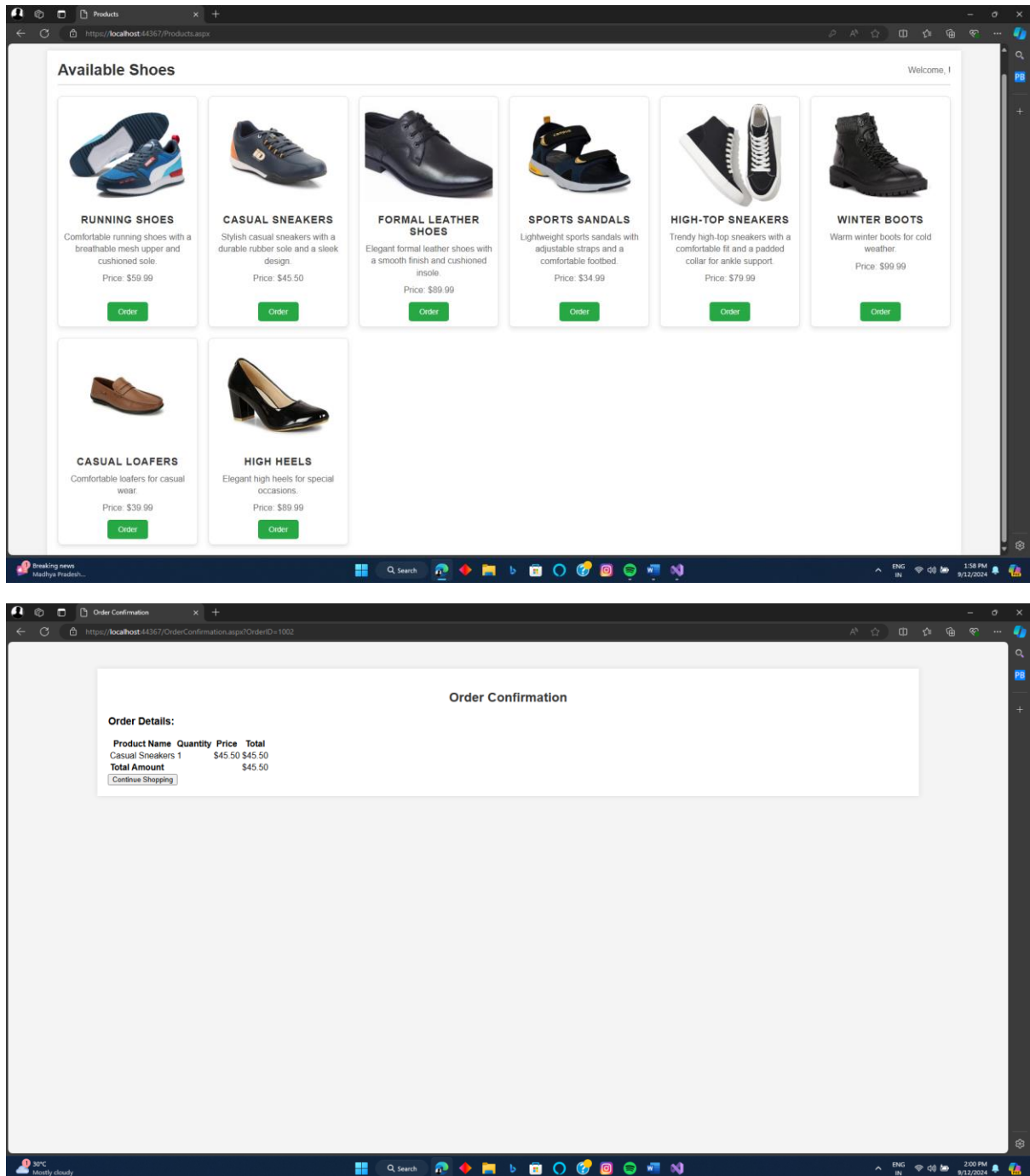
Username

Password

☐ Remember me

sign up Login

ASSIGNMENT-1



12. Develop a web form that will keep the records of Laptop with details like Unique ID, Name of brand, model, RAM, Price. Provide following facility of Add New Laptop, Update Laptop Details, Delete Laptop and View All Laptop details in Gridview Control.

ANS:

Laptops.aspx:

ASSIGNMENT-1

```
<%@ Page Language="vb" AutoEventWireup="false" CodeBehind="Laptops.aspx.vb"
Inherits="vtp.Laptops" %>
```

```
<!DOCTYPE html>
```

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

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

```
<title>Laptop Management</title>
```

```
<style>
```

```
body {
```

```
font-family: Arial, sans-serif;
```

```
background-color: #f0f0f0;
```

```
margin: 0;
```

```
padding: 0;
```

```
}
```

```
.container {
```

```
width: 60%;
```

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

```
background-color: #fff;
```

```
padding: 20px;
```

```
box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
```

```
}
```

```
h2 {
```

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

```
margin-bottom: 20px;
```

```
}
```

ASSIGNMENT-1

```
.input-section {  
    margin-bottom: 20px;  
    display: grid;  
    grid-template-columns: 1fr 2fr;  
    gap: 10px;  
}
```

```
input[type="text"] {  
    padding: 8px;  
    border: 1px solid #ccc;  
    border-radius: 4px;  
    width: 100%;  
}
```

```
button, .aspbutton {  
    padding: 10px 20px;  
    background-color: #007bff;  
    color: #fff;  
    border: none;  
    border-radius: 4px;  
    cursor: pointer;  
}
```

```
button:hover, .aspbutton:hover {  
    background-color: #0056b3;  
}
```

```
.gridview {
```

ASSIGNMENT-1

```
width: 100%;  
border-collapse: collapse;  
}
```

```
.gridview th, .gridview td {  
padding: 10px;  
border: 1px solid #ddd;  
text-align: left;  
}
```

```
.gridview th {  
background-color: #f4f4f4;  
}
```

</style>

</head>

<body>

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

<div class="container">

<h2>Laptop Management</h2>

<div class="input-section">

<asp:Label ID="lblBrand" runat="server" Text="Brand Name:"
AssociatedControlID="txtBrand"></asp:Label>

<asp:TextBox ID="txtBrand" runat="server" Width="678px"></asp:TextBox>

<asp:Label ID="lblModel" runat="server" Text="Model:"
AssociatedControlID="txtModel"></asp:Label>

<asp:TextBox ID="txtModel" runat="server" Width="677px"></asp:TextBox>

ASSIGNMENT-1

```
<asp:Label ID="lblRAM" runat="server" Text="RAM:"  
AssociatedControlID="txtRAM"></asp:Label>
```

```
<asp:TextBox ID="txtRAM" runat="server" Width="678px"></asp:TextBox>
```

```
<asp:Label ID="lblPrice" runat="server" Text="Price:"  
AssociatedControlID="txtPrice"></asp:Label>
```

```
<asp:TextBox ID="txtPrice" runat="server" Width="677px"></asp:TextBox>
```

```
<asp:Button ID="btnAdd" runat="server" Text="Add New Laptop"  
OnClick="btnAdd_Click" Height="33px" />
```

```
<asp:Button ID="btnUpdate" runat="server" Text="Update Laptop Details"  
OnClick="btnUpdate_Click" Height="33px" Width="372px" />
```

```
<asp:Button ID="btnDelete" runat="server" Text="Delete Laptop"  
OnClick="btnDelete_Click" Height="32px" />
```

```
</div>
```

```
<asp:GridView ID="gvLaptops" runat="server" AutoGenerateColumns="False"  
CssClass="gridview"
```

```
OnSelectedIndexChanged="gvLaptops_SelectedIndexChanged">
```

```
<Columns>
```

```
<asp:BoundField DataField="LaptopID" HeaderText="Laptop ID" ReadOnly="True" />
```

```
<asp:BoundField DataField="Brand" HeaderText="Brand" />
```

```
<asp:BoundField DataField="Model" HeaderText="Model" />
```

```
<asp:BoundField DataField="RAM" HeaderText="RAM" />
```

```
<asp:BoundField DataField="Price" HeaderText="Price" />
```

```
<asp:CommandField ShowSelectButton="True" SelectText="Select" />
```

```
</Columns>
```

```
</asp:GridView>
```

```
</div>
```


ASSIGNMENT-1

```
</form>  
</body>  
</html>
```

Laptops.aspx.vb:

Imports System.Data.SqlClient

Public Class Laptops

Inherits System.Web.UI.Page

Dim connectionString As String = "Data Source=(localdb)\MSSQLLocalDB;Initial Catalog=e-commerce;Integrated Security=True;Connect Timeout=30;Encrypt=False"

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

If Not IsPostBack Then

LoadLaptops()

End If

End Sub

Private Sub LoadLaptops()

Using con As New SqlConnection(connectionString)

Using cmd As New SqlCommand("SELECT * FROM Laptops", con)

con.Open()

Dim reader As SqlDataReader = cmd.ExecuteReader()

gvLaptops.DataSource = reader

gvLaptops.DataBind()

End Using

ASSIGNMENT-1

End Using

End Sub

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

Using con As New SqlConnection(connectionString)

Using cmd As New SqlCommand("INSERT INTO Laptops (Brand, Model, RAM, Price)
VALUES (@Brand, @Model, @RAM, @Price)", con)

cmd.Parameters.AddWithValue("@Brand", txtBrand.Text)

cmd.Parameters.AddWithValue("@Model", txtModel.Text)

cmd.Parameters.AddWithValue("@RAM", txtRAM.Text)

cmd.Parameters.AddWithValue("@Price", txtPrice.Text)

con.Open()

cmd.ExecuteNonQuery()

End Using

End Using

LoadLaptops()

End Sub

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

Using con As New SqlConnection(connectionString)

Using cmd As New SqlCommand("UPDATE Laptops SET Brand=@Brand,
Model=@Model, RAM=@RAM, Price=@Price WHERE LaptopID=@LaptopID", con)

cmd.Parameters.AddWithValue("@Brand", txtBrand.Text)

cmd.Parameters.AddWithValue("@Model", txtModel.Text)

cmd.Parameters.AddWithValue("@RAM", txtRAM.Text)

cmd.Parameters.AddWithValue("@Price", txtPrice.Text)

cmd.Parameters.AddWithValue("@LaptopID",
gvLaptops.SelectedRow.Cells(0).Text)

con.Open()

ASSIGNMENT-1

```
cmd.ExecuteNonQuery()
```

```
End Using
```

```
End Using
```

```
LoadLaptops()
```

```
End Sub
```

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

```
Using con As New SqlConnection(connectionString)
```

```
Using cmd As New SqlCommand("DELETE FROM Laptops WHERE  
LaptopID=@LaptopID", con)
```

```
cmd.Parameters.AddWithValue("@LaptopID",  
gvLaptops.SelectedRow.Cells(0).Text)
```

```
con.Open()
```

```
cmd.ExecuteNonQuery()
```

```
End Using
```

```
End Using
```

```
LoadLaptops()
```

```
End Sub
```

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

```
' Ensure the selected row index is valid
```

```
If gvLaptops.SelectedIndex >= 0 Then
```

```
' Populate textboxes with data from the selected row
```

```
txtBrand.Text = gvLaptops.SelectedRow.Cells(1).Text
```

```
txtModel.Text = gvLaptops.SelectedRow.Cells(2).Text
```

```
txtRAM.Text = gvLaptops.SelectedRow.Cells(3).Text
```

```
txtPrice.Text = gvLaptops.SelectedRow.Cells(4).Text
```

```
End If
```

ASSIGNMENT-1

End Sub

End Class

Table:

| | LaptopID | Brand | Model | RAM | Price |
|---|----------|-----------|--------------------|------|-----------|
| ▶ | 1 | hp | victus | 8 | 65000.00 |
| | 2 | hp | pavilion | 8 | 50000.00 |
| | 3 | Lenovo | ThinkPad E14 | 8 | 61000.00 |
| | 4 | Apple | MacBook Air M1 | 8 | 120000.00 |
| | 5 | Asus | ZenBook 14 | 16 | 81000.00 |
| | 6 | Microsoft | Surface Laptop ... | 16 | 75000.00 |
| | 7 | Samsung | Galaxy Book Pro | 8 | 85000.00 |
| ⚙ | NULL | NULL | NULL | NULL | NULL |

Output:

