

LAB 3:

Default.aspx:

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

```
<html ">
```

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

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

```
    <style>
```

```
        body {
```

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

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

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

```
        }
```

```
        .nav-menu {
```

```
            background-color: #333;
```

```
            padding: 10px;
```

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

```
        }
```

```
        .nav-menu ul {
```

```
            list-style-type: none;
```

```
            padding: 0;
```

```
            margin: 0;
```

```
            display: flex;
```

```
            justify-content: center;
```

```
}  
.nav-menu li {  
    margin: 0 15px;  
}  
.nav-menu a {  
    color: white;  
    text-decoration: none;  
    font-size: 18px;  
}  
.nav-menu a:hover {  
    color: #4CAF50;  
}  
.button-container {  
    margin-top: 20px;  
}  
button {  
    padding: 10px 20px;  
    margin: 10px;  
    background-color: #4CAF50;  
    color: white;  
    border: none;  
    cursor: pointer;  
    font-size: 16px;  
}  
button:hover {  
    background-color: #45a049;
```

```

    }
</style>
</head>
<body>
    <div class="nav-menu">
        <ul>
            <li><a href="Default.aspx">Home</a></li>
            <li><a href="Register.aspx">Register</a></li>
            <li><a href="Search.aspx">Search</a></li>
            <li><a href="Help.aspx">Help</a></li>
        </ul>
    </div>
    <form id="form1" runat="server">
        <h1>Welcome to the Application</h1>
        <p>If you are a new user, please register. If you are already registered, you can
search for users.</p>
        <div class="button-container">
            <asp:Button ID="btnRegister" runat="server" Text="Register"
OnClick="BtnRegister_Click" />
            <asp:Button ID="btnSearch" runat="server" Text="Search"
OnClick="BtnSearch_Click" />
        </div>
    </form>
</body>
</html>

```

Default.aspx.vb:

Partial Class _Default

Inherits System.Web.UI.Page

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

Response.Redirect("Register.aspx")

End Sub

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

Response.Redirect("Search.aspx")

End Sub

End Class

Help.aspx:

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

```
<html">
```

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

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

```
<style>
```

```
body {
```

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

```
}
```

```
.nav-menu {
```

```
background-color: #333;
```

```
padding: 10px;
```

```
        margin-bottom: 20px;
    }
    .nav-menu ul {
        list-style-type: none;
        padding: 0;
        margin: 0;
        display: flex;
        justify-content: center;
    }
    .nav-menu li {
        margin: 0 15px;
    }
    .nav-menu a {
        color: white;
        text-decoration: none;
        font-size: 18px;
    }
    .nav-menu a:hover {
        color: #4CAF50;
    }
    .help-container {
        width: 600px;
        margin: 50px auto;
        padding: 20px;
        border: 1px solid #ccc;
        background-color: #f9f9f9;
    }
```

```
h2 {
    text-align: center;
}

p {
    line-height: 1.6;
}

</style>
</head>
<body>
    <div class="nav-menu">
        <ul>
            <li><a href="Default.aspx">Home</a></li>
            <li><a href="Register.aspx">Register</a></li>
            <li><a href="Search.aspx">Search</a></li>
            <li><a href="Help.aspx">Help</a></li>
        </ul>
    </div>
    <div class="help-container">
        <h2>Help & Guidance</h2>
        <p><strong>Registering a New User:</strong> Navigate to the Register page, fill in your
        username, email, password, and confirm your password. Click the Register button to create
        your account.</p>
        <p><strong>Searching for Users:</strong> Go to the Search page, enter a name or email in
        the search field, and click Search. Results will display matching users.</p>
        <p><strong>Troubleshooting:</strong> If you encounter errors, ensure all fields are filled
        correctly. Contact support if issues persist.</p>
    </div>
</body>
```

</html>

Help.aspx.vb:

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

```
<html">
```

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

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

```
<style>
```

```
body {
```

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

```
}
```

```
.nav-menu {
```

```
    background-color: #333;
```

```
    padding: 10px;
```

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

```
}
```

```
.nav-menu ul {
```

```
    list-style-type: none;
```

```
    padding: 0;
```

```
    margin: 0;
```

```
    display: flex;
```

```
    justify-content: center;
```

```
}
```

```
.nav-menu li {
```

```
    margin: 0 15px;
```

```
}
```

```
.nav-menu a {
```

```
    color: white;
```

```
    text-decoration: none;
```

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

```
}

.nav-menu a:hover {
    color: #4CAF50;
}

.help-container {
    width: 600px;
    margin: 50px auto;
    padding: 20px;
    border: 1px solid #ccc;
    background-color: #f9f9f9;
}

h2 {
    text-align: center;
}

p {
    line-height: 1.6;
}

</style>
</head>
<body>
    <div class="nav-menu">
        <ul>
            <li><a href="Default.aspx">Home</a></li>
            <li><a href="Register.aspx">Register</a></li>
            <li><a href="Search.aspx">Search</a></li>
            <li><a href="Help.aspx">Help</a></li>
        </ul>
    </div>
    <div class="help-container">
        <h2>Help & Guidance</h2>
```

<p>Registering a New User: Navigate to the Register page, fill in your username, email, password, and confirm your password. Click the Register button to create your account.</p>

<p>Searching for Users: Go to the Search page, enter a name or email in the search field, and click Search. Results will display matching users.</p>

<p>Troubleshooting: If you encounter errors, ensure all fields are filled correctly. Contact support if issues persist.</p>

</div>

</body>

</html>

Register.aspx:

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

```
<!DOCTYPE html>
```

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

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

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

```
<style>
```

```
body {
```

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

```
}
```

```
.nav-menu {
```

```
    background-color: #333;
```

```
    padding: 10px;
```

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

```
}
```

```
.nav-menu ul {
```

```
    list-style-type: none;
```

```
    padding: 0;
```

```
    margin: 0;
```

```
    display: flex;
```

```
        justify-content: center;
    }
    .nav-menu li {
        margin: 0 15px;
    }
    .nav-menu a {
        color: white;
        text-decoration: none;
        font-size: 18px;
    }
    .nav-menu a:hover {
        color: #4CAF50;
    }
    .form-container {
        width: 400px;
        margin: 50px auto;
        padding: 20px;
        border: 1px solid #ccc;
        background-color: #f9f9f9;
    }
    .form-group {
        margin-bottom: 15px;
    }
    label {
        display: block;
        margin-bottom: 5px;
    }
    input[type="text"], input[type="password"] {
        width: 100%;
```

```
padding: 8px;
box-sizing: border-box;
}
button {
width: 100%;
padding: 10px;
background-color: #4CAF50;
color: white;
border: none;
cursor: pointer;
}
button:hover {
background-color: #45a049;
}
</style>
</head>
<body>
<div class="nav-menu">
<ul>
<li><a href="Default.aspx">Home</a></li>
<li><a href="Register.aspx">Register</a></li>
<li><a href="Search.aspx">Search</a></li>
<li><a href="Help.aspx">Help</a></li>
</ul>
</div>
<div class="form-container">
<h2>Register</h2>
<form id="registerForm" runat="server">
<div class="form-group">
```

```
<label for="txtUsername">Username:</label>

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

</div>

<div class="form-group">

    <label for="txtEmail">Email:</label>

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

</div>

<div class="form-group">

    <label for="txtPassword">Password:</label>

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

</div>

<div class="form-group">

    <label for="txtConfirmPassword">Confirm Password:</label>

    <asp:TextBox ID="txtConfirmPassword" TextMode="Password" runat="server"></asp:TextBox>

</div>

<div class="form-group">

    <button type="submit" id="btnRegister" runat="server"
OnClick="BtnRegister_Click">Register</button>

</div>

</form>

</div>

</body>

</html>
```

Register.aspx.vb:

Imports System.Data

Imports System.Data.SqlClient

Imports System.Configuration

Partial Class Register

Inherits System.Web.UI.Page

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

Try

' Validate inputs

If String.IsNullOrEmpty(txtUsername.Text) OrElse

String.IsNullOrEmpty(txtEmail.Text) OrElse

String.IsNullOrEmpty(txtPassword.Text) OrElse

txtPassword.Text <> txtConfirmPassword.Text Then

Response.Write("<script>alert('Please fill all fields correctly.');

Return

End If

' Database connection

Dim connString As String = ConfigurationManager.ConnectionStrings("ProjectDB").ConnectionString

Using conn As New SqlConnection(connString)

Using cmd As New SqlCommand("INSERT INTO USERS (USER_NAME, USER_EMAIL, USERNAME, USER_PASSWORD, ROLE) VALUES (@UserName, @Email, @Username, @Password, @Role)", conn)

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

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

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

cmd.Parameters.AddWithValue("@Password", txtPassword.Text)

cmd.Parameters.AddWithValue("@Role", "User") ' Default role

conn.Open()

cmd.ExecuteNonQuery()

' Redirect to the landing page after registration

Response.Redirect("Default.aspx")

End Using

```
        End Using
    Catch ex As Exception
        Response.Write("<script>alert('Error: " & Server.HtmlEncode(ex.Message) & "');</script>")
    End Try
End Sub
End Class
```

Search.aspx:

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

```
<html">
<head runat="server">
    <title>Search</title>
    <style>
        body {
            font-family: Arial, sans-serif;
        }
        .nav-menu {
            background-color: #333;
            padding: 10px;
            margin-bottom: 20px;
        }
        .nav-menu ul {
            list-style-type: none;
            padding: 0;
            margin: 0;
            display: flex;
```

```
        justify-content: center;
    }
    .nav-menu li {
        margin: 0 15px;
    }
    .nav-menu a {
        color: white;
        text-decoration: none;
        font-size: 18px;
    }
    .nav-menu a:hover {
        color: #4CAF50;
    }
    .search-container {
        width: 400px;
        margin: 50px auto;
        padding: 20px;
        border: 1px solid #ccc;
        background-color: #f9f9f9;
    }
    .form-group {
        margin-bottom: 15px;
    }
    label {
        display: block;
        margin-bottom: 5px;
    }
```

```
input[type="text"] {
    width: 100%;
    padding: 8px;
    box-sizing: border-box;
}

button {
    width: 100%;
    padding: 10px;
    background-color: #4CAF50;
    color: white;
    border: none;
    cursor: pointer;
}

button:hover {
    background-color: #45a049;
}

.results {
    margin-top: 20px;
    border: 1px solid #ccc;
    padding: 10px;
}

</style>

</head>

<body>

<div class="nav-menu">

    <ul>

        <li><a href="Default.aspx">Home</a></li>
```

```

        <li><a href="Register.aspx">Register</a></li>

        <li><a href="Search.aspx">Search</a></li>

        <li><a href="Help.aspx">Help</a></li>
    </ul>
</div>

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

    <div class="search-container">

        <h2>Search Users</h2>

        <div class="form-group">

            <label for="txtSearch">Search:</label>

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

        </div>

        <div class="form-group">

            <button type="submit" id="btnSearch" runat="server"
OnClick="BtnSearch_Click">Search</button>

        </div>

        <div class="results">

            <asp:GridView ID="GridViewResults" runat="server" AutoGenerateColumns="false">

                <Columns>

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

                    <asp:BoundField DataField="USER_EMAIL" HeaderText="Email" />

                    <asp:BoundField DataField="CREATED_AT" HeaderText="Joined On"
DataFormatString="{0:d}" />

                </Columns>

            </asp:GridView>

        </div>

    </div>

</form>

```

</body>

</html>

Search.aspx.vb:

Imports System.Data

Imports System.Data.SqlClient

Imports System.Configuration

Partial Class Search

Inherits System.Web.UI.Page

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

Try

' Database connection

Dim connString As String =

ConfigurationManager.ConnectionStrings("ProjectDB").ConnectionString

Using conn As New SqlConnection(connString)

Using cmd As New SqlCommand("SELECT USER_NAME, USER_EMAIL, CREATED_AT
FROM USERS WHERE USER_NAME LIKE @SearchTerm OR USER_EMAIL LIKE @SearchTerm",
conn)

cmd.Parameters.AddWithValue("@SearchTerm", "%" & txtSearch.Text & "%")

conn.Open()

Dim adapter As New SqlDataAdapter(cmd)

Dim dt As New DataTable()

adapter.Fill(dt)

GridViewResults.DataSource = dt

```
        GridViewResults.DataBind()
    End Using
End Using
Catch ex As Exception
    Response.Write("<script>alert('Error: " & Server.HtmlEncode(ex.Message) &
    "');</script>")
End Try
End Sub
End Class
```

OUTPUT: