



6/3/2023

# Lab no 15

Internet application development

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*Submitted to: Sir Irfan Hameed*

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SUBMITTED BY: MUHAMMAD AHMED NASEER

ROLL NO: BS-20-GB-108417

## Aspx Code:

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Default.aspx.vb"
Inherits="lab15_Default" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Lab 15</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #f9f9f9;
            margin: 20px;
            color: #333;
        }

        h1, h2, p {
            margin-bottom: 10px;
        }

        h1 {
            font-size: 32px;
            color: #4285f4;
            text-align: center;
        }

        h2 {
            font-size: 24px;
            color: #ea4335;
            text-align: center;
        }

        p {
            font-size: 18px;
            color: #3c4043;
            text-align: center;
        }

        a {
            color: #4285f4;
            text-decoration: none;
        }

        #Div1 {
            background-color: #ffffff;
            padding: 20px;
            border-radius: 5px;
            box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
            margin-top: 20px;
            text-align: center;
        }

        img {
            max-width: 100%;
        }
    </style>
</head>
<body>
    <h1>Lab 15</h1>
    <h2>Welcome to Lab 15</h2>
    <p>This is a sample ASPX page.</p>
    <a href="#">Click here</a>
    <div id="Div1">
        <img alt="A placeholder for an image." data-bbox="112 898 247 911"/>
    </div>
</body>
</html>
```

```

        height: auto;
        margin-top: 20px;
    }

    /* Interactive Styles */
    h1:hover, h2:hover, p:hover {
        color: #ea4335;
        cursor: pointer;
    }
</style>
</head>
<body>
    <h1><b>Lab no : 15</b></h1>
    <hr />

    <h2><b>Problem Statement:</b></h2>

    <p><b>Problem 1) Refer to Chapter 09 "Validation". </b></p>
    <p><b>PDF Page 319-340 Implement all code examples given in this chapter</b></p>

    <br />
    <hr />

    <h2><b>Lab Demo</b></h2>
    <p>Click here: <a href="Validation.aspx">Lab 15 Demo</a></p>
    <hr />

    <h2><b>Lab Report:</b></h2>
    <div id="Div1" runat="server">
        <a href="lab15.pdf" download>Download Lab 15</a>
        <hr />
        <h2><b>Output</b></h2>

        <br />
        
        
        <br />
    </div>
</body>
</html>

```

## Vb Code:

```

Partial Class lab15_Default
    Inherits System.Web.UI.Page

End Class

```

## Aspx Code:

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Validation.aspx.vb"
Inherits="lab15_Validation" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
    <style>
        body {
            background-color: #f2f2f2;
            color: #333;
            font-family: Arial, sans-serif;
        }

        .container {
            margin: 20px;
            padding: 20px;
            background-color: #fff;
            border-radius: 5px;
            box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
            transition: background-color 0.3s ease;
        }

        .container:hover {
            background-color: #f9f9f9;
        }

        h1 {
            color: #333;
            font-size: 24px;
            font-weight: bold;
            margin-bottom: 20px;
            text-align: center;
            transition: color 0.3s ease;
        }

        h1:hover {
            color: #4caf50;
        }

        .container label {
            display: block;
            margin-bottom: 5px;
            color: #555;
            font-weight: bold;
        }

        .container input[type="text"],
        .container input[type="button"] {
            padding: 8px;
            border-radius: 3px;
            border: 1px solid #ccc;
            background-color: #f9f9f9;
        }
```

```

        color: #555;
        font-size: 14px;
        margin-bottom: 10px;
        width: 200px;
    }

    .container input[type="text"]:focus,
    .container input[type="button"]:focus {
        outline: none;
        border-color: #4caf50;
    }

    .container input[type="text"]::placeholder {
        color: #999;
    }

    .container input[type="button"] {
        background-color: #4caf50;
        color: #fff;
        cursor: pointer;
    }

    .container input[type="button"]:hover {
        background-color: #45a049;
    }

    .container .validation-message {
        color: #ff0000;
        margin-top: 5px;
        font-size: 13px;
    }
</style>
</head>
<body>
    <form id="form1" runat="server">
        <div class="container">
            <h1>Validation</h1>

            <div class="container">
                <label for="txtValidated">Validated Number:</label>
                <asp:TextBox id="txtValidated" runat="server" />
                <asp:RangeValidator id="RangeValidator" runat="server"
                    Text="The number is not in range" ErrorMessage="The number is not in the
range"
                    ControlToValidate="txtValidated"
                    MaximumValue="10" MinimumValue="1" Type="Integer"
                    ForeColor="#ff0000" Display="Dynamic" />
                <br />

                Not validated:
                <asp:TextBox id="txtNotValidated" runat="server" />
                <br /><br />
                <asp:Button id="cmdOK" runat="server" Text="OK" />
                <br /><br />
                <asp:Label id="lblMessage" runat="server" EnableViewState="False" />
            </div>

            <div class="container">

```

```

        <label for="txtExpression">Enter Validation Expression:</label>
        <asp:TextBox ID="txtExpression" runat="server"></asp:TextBox>
        <br /><br />
        <label for="txtTestString">Enter Test String:</label>
        <asp:TextBox ID="txtTestString" runat="server"></asp:TextBox>
        <br /><br />
        <asp:Button ID="btnValidate" runat="server" Text="Validate"
OnClick="btnValidate_Click" />
        <br /><br />
        <asp:Label ID="lblResult" runat="server" CssClass="validation-
message"></asp:Label>
        <br /><br />
        <asp:RegularExpressionValidator ID="revTestString" runat="server"
ControlToValidate="txtTestString"
        ValidationExpression="^[a-zA-Z]+$" ErrorMessage="Invalid format. Only
letters allowed."
        ForeColor="#ff0000" Display="Dynamic" />
    </div>

    <div class="container">
        <label for="txtName">Name:</label>
        <asp:TextBox ID="txtName" runat="server"></asp:TextBox>
        <br /><br />
        <asp:RequiredFieldValidator ID="rfvName" runat="server"
ControlToValidate="txtName"
        ErrorMessage="Name is required." ForeColor="#ff0000" Display="Dynamic" />
        <br /><br />
        <label for="txtEmail">Email:</label>
        <asp:TextBox ID="txtEmail" runat="server"></asp:TextBox>
        <asp:Button ID="btnCheckEmail" runat="server" Text="Check Email"
OnClick="btnCheckEmail_Click" />
        <br /><br />
        <asp:Label ID="lblEmailResult" runat="server" CssClass="validation-
message"></asp:Label>
        <br /><br />
        <asp:CustomValidator ID="cvEmail" runat="server" ControlToValidate="txtEmail"
        ErrorMessage="Invalid email format."
OnServerValidate="cvEmail_ServerValidate"
        ForeColor="#ff0000" Display="Dynamic" />
        <br /><br />
        <asp:Button ID="btnSubmit" runat="server" Text="Submit"
OnClick="btnSubmit_Click" />
        <br /><br />
        <asp:Label ID="Label1" runat="server" CssClass="validation-
message"></asp:Label>
    </div>
</form>
</body>
</html>

```

## Vb Code:

```

Imports System.Text.RegularExpressions
Partial Class lab15_Validation
    Inherits System.Web.UI.Page

```

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

```
End Sub
```

```
Protected Sub cmdOK_Click(sender As Object, e As EventArgs) Handles cmdOK.Click
    Dim ErrorMessage As String = "<b>Mistakes found:</b><br />"
    For Each ctrl As BaseValidator In Me.Validators
        If ctrl.IsValid = False Then
            ErrorMessage &= ctrl.ErrorMessage & "<br />"

            Dim ctrlInput As TextBox = CType(Me.FindControl(ctrl.ControlToValidate),
TextBox)
            ErrorMessage &= " * Problem is with this input: "
            ErrorMessage &= ctrlInput.Text & "<br />"
        End If
    Next
    lblMessage.Text = ErrorMessage
End Sub
```

```
Protected Sub btnValidate_Click(sender As Object, e As EventArgs) Handles btnValidate.Click
    Dim validationExpression As String = txtExpression.Text
    Dim testString As String = txtTestString.Text

    Dim regex As New Regex(validationExpression)
    Dim match As Match = regex.Match(testString)

    If match.Success Then
        lblResult.Text = "Valid"
    Else
        lblResult.Text = "Invalid"
    End If
End Sub
```

```
Protected Sub btnSubmit_Click(sender As Object, e As EventArgs) Handles btnSubmit.Click
    If Page.IsValid Then
        lblResult.Text = "Form submitted successfully!"
    Else
        lblResult.Text = "Form contains errors. Please check the validation
messages."
    End If
End Sub
```

```
Protected Sub cvEmail_ServerValidate(source As Object, args As
ServerValidateEventArgs)
    Dim email As String = args.Value.Trim()
    ' Perform custom email validation logic
    If IsValidEmail(email) Then
        args.IsValid = True
    Else
        args.IsValid = False
    End If
End Sub
```

```
Private Function IsValidEmail(email As String) As Boolean
    ' Use regular expression to validate email format
```

```

        Dim emailRegex As New Regex("^[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,}$")
        Return emailRegex.IsMatch(email)
    End Function

    Protected Sub btnCheckEmail_Click(sender As Object, e As EventArgs) Handles
btnCheckEmail.Click
        Dim email As String = txtEmail.Text.Trim()
        If IsValidEmail(email) Then
            lblEmailResult.Text = "Valid email"
        Else
            lblEmailResult.Text = "Invalid email"
        End If
    End Sub
End Class

```

## Output:

Validation

Validated Number:

The number is not in range

Not validated:

OK

Enter Validation Expression:

Enter Test String:

Validate

Valid

Name:

Validate

Valid

Name:

Email:

Invalid email

Invalid email format.

Submit



