

2023/2024(1)  
EF234301 Web Programming  
Lecture #11a

**ASP.NET: Validation**

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# ASP.NET Validation: What is it?

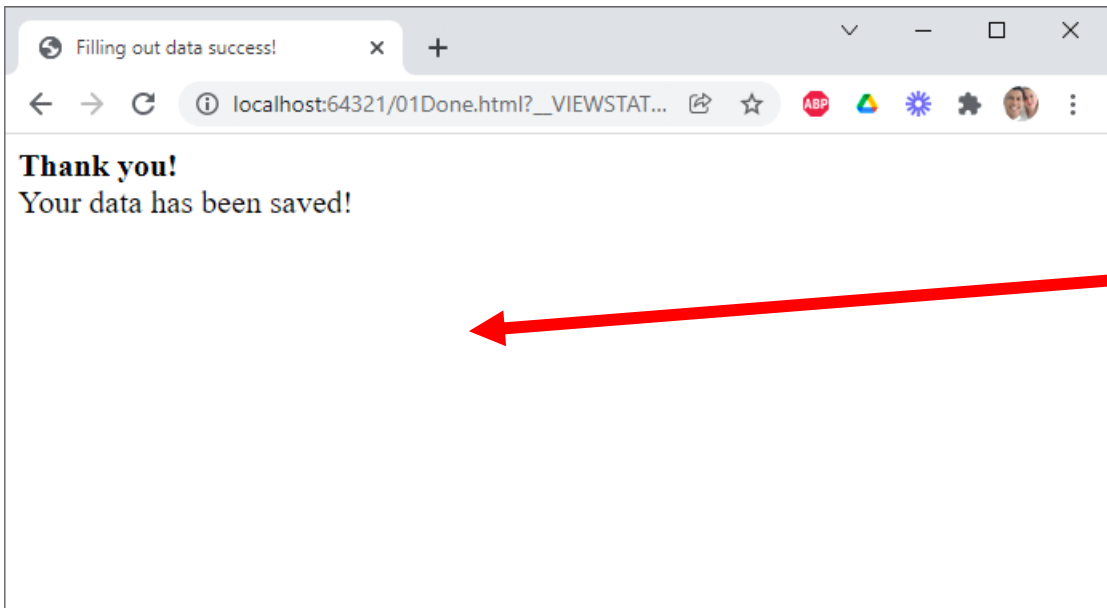
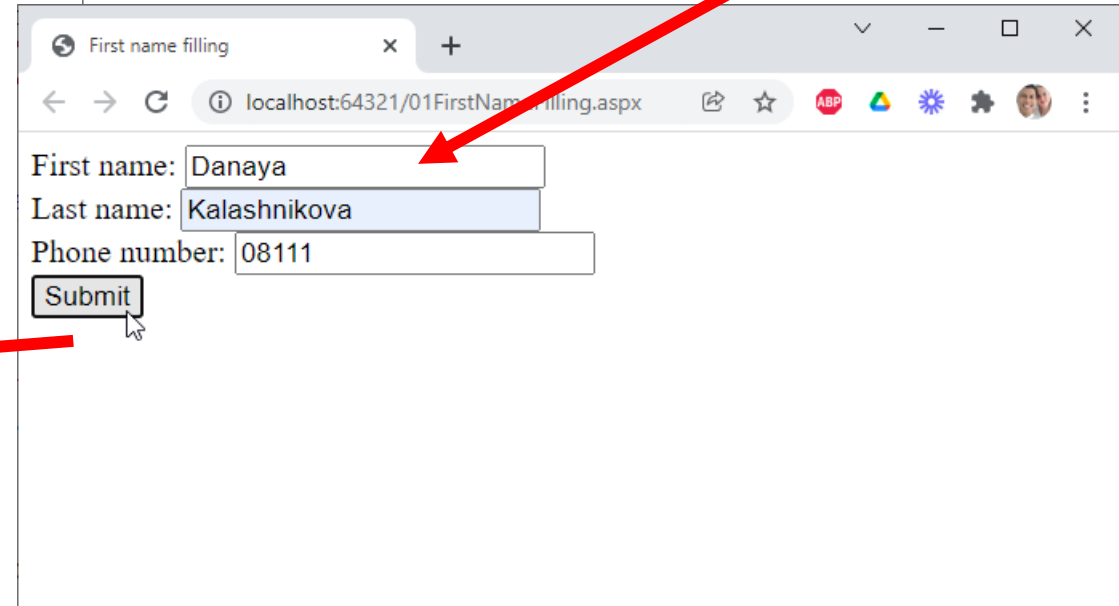
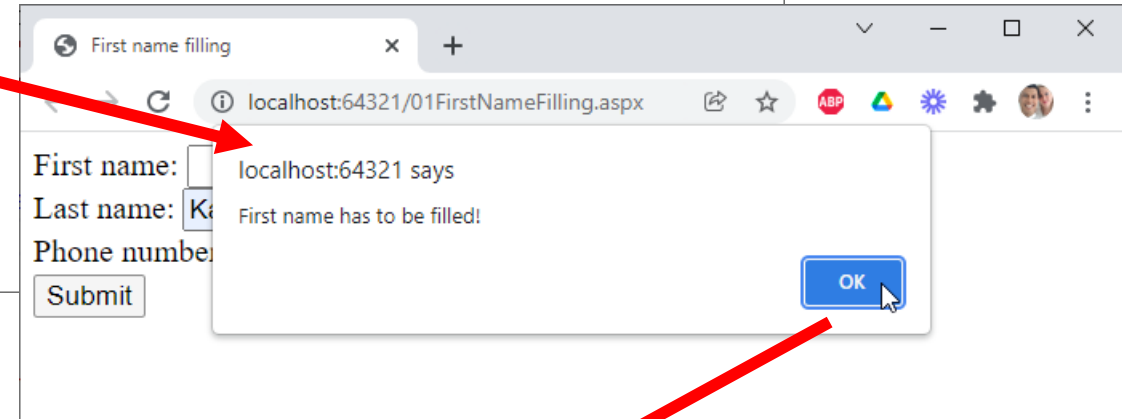
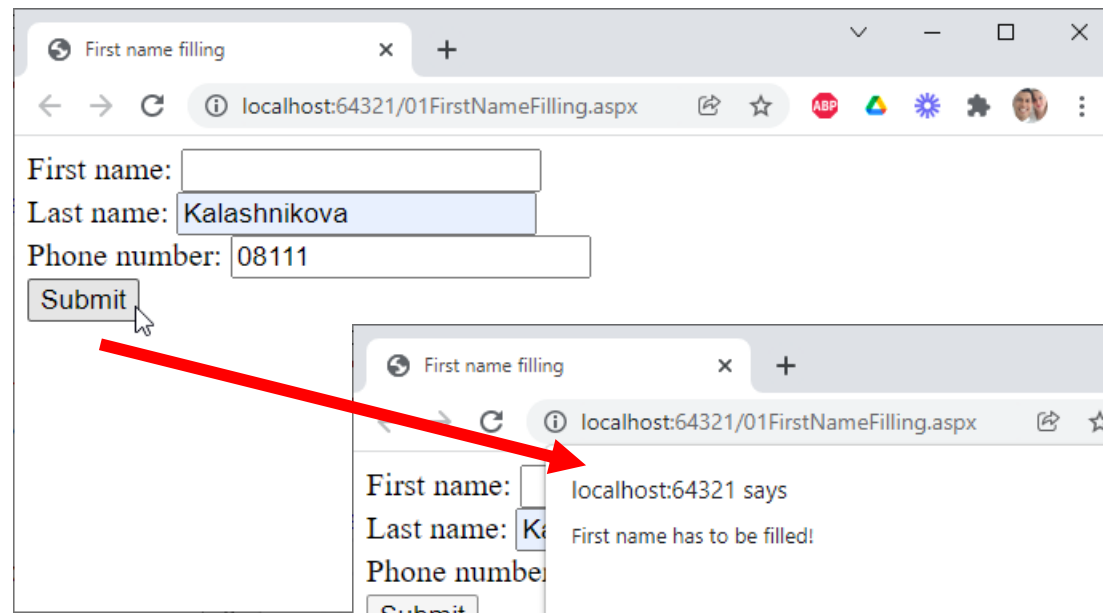
- ASP.NET validation controls *validate the user input data* to ensure that these following don't get stored.
  - Useless,
  - Unauthenticated, or
  - Contradictory data
- Validation can be done on:
  - Client/browser side: by utilise some *JavaScript*
  - Server side: this lecture is all about

# MyValidator: 01FirstNameFilling.aspx

```
01FirstNameFilling.aspx -> X
1 <!DOCTYPE html>
2
3 <html xmlns="http://www.w3.org/1999/xhtml">
4 <head>
5     <title>First name filling</title>
6     <script>
7         function checkForm() {
8             var x = document.forms["myForm"]["fname"].value;
9             if (x == "") {
10                alert("First name has to be filled!");
11                return false;
12            }
13            return true;
14        }
15     </script>
16 </head>
17 <body>
18     <form id="myForm" runat="server"
19         action="01Done.html" onsubmit="return checkForm()"
20         method="get">
21         <div>
22             <asp:Label ID="lblFN" runat="server" Text="First name:"></asp:Label>
23             <asp:TextBox ID="fname" runat="server"></asp:TextBox>
24             <br />
25             <asp:Label ID="lblLN" runat="server" Text="Last name:"></asp:Label>
26             <asp:TextBox ID="lname" runat="server"></asp:TextBox>
27             <br />
28             <asp:Label ID="lblPhone" runat="server" Text="Phone number:"></asp:Label>
29             <asp:TextBox ID="phone" runat="server"></asp:TextBox>
30             <br />
31             <asp:Button ID="Button1" runat="server" Text="Submit" />
32         </div>
33     </form>
34 </body>
35 </html>
```

# 01Done.html

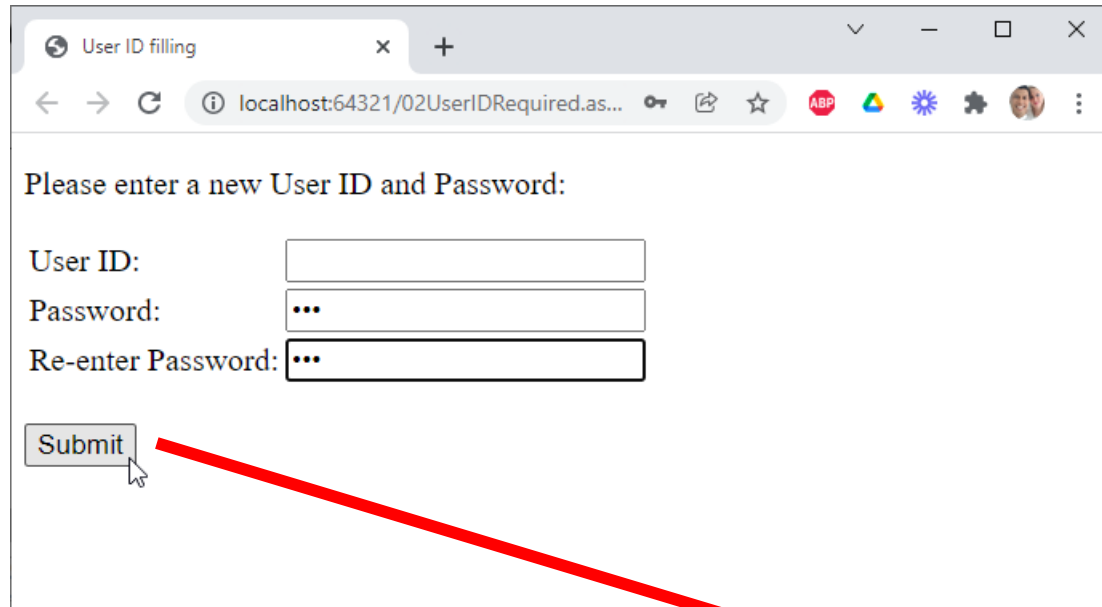
```
01Done.html + x
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8" />
5   <title>Filling out data success!</title>
6 </head>
7 <body>
8   <b>Thank you!</b>
9   <br>
10  Your data has been saved!
11 </body>
12 </html>
```



# 02UserIDRequired.aspx

```
02UserIDRequired.aspx
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="utf-8" />
5   <title>User ID filling</title>
6 </head>
7 <body>
8   <form id="Form1" runat="server">
9     <p>Please enter a new User ID and Password:</p>
10    <table>
11      <tr>
12        <td>User ID:</td>
13        <td><input type="text" runat="server" id="txtID" />
14          <asp:RequiredFieldValidator ID="RequiredFieldValidator1"
15            runat="server"
16            ControlToValidate=txtID
17            ErrorMessage="User ID is required.">
18            *
19          </asp:RequiredFieldValidator>
20        </td>
21      </tr>
22      <tr>
23        <td>Password:</td>
24        <td><input type="password" runat="server" id="txtPWord" /></td>
25      </tr>
26      <tr>
27        <td>Re-enter Password:</td>
28        <td><input type="password" runat="server" id="txtRePWord" /></td>
29      </tr>
30    </table><br>
31    <input type="submit" runat="server" id="cmdSubmit" value="Submit" />
32    <asp:ValidationSummary ID="ValidationSummary1" runat="server"
33      HeaderText="There were errors on the page:" />
34  </form>
35 </body>
36 </html>
```

# 02UserIDRequired (Output)



User ID filling

localhost:64321/02UserIDRequired.as...

Please enter a new User ID and Password:

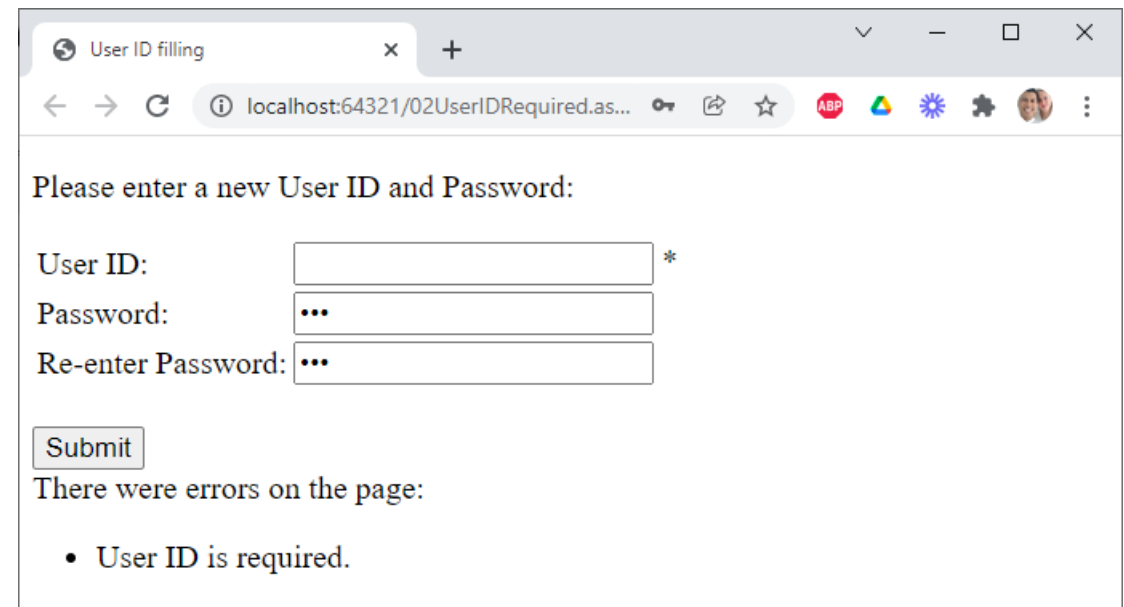
User ID:

Password:

Re-enter Password:

Submit

A red arrow points from the 'Submit' button in this screenshot to the 'Submit' button in the next screenshot.



User ID filling

localhost:64321/02UserIDRequired.as...

Please enter a new User ID and Password:

User ID:  \*

Password:

Re-enter Password:

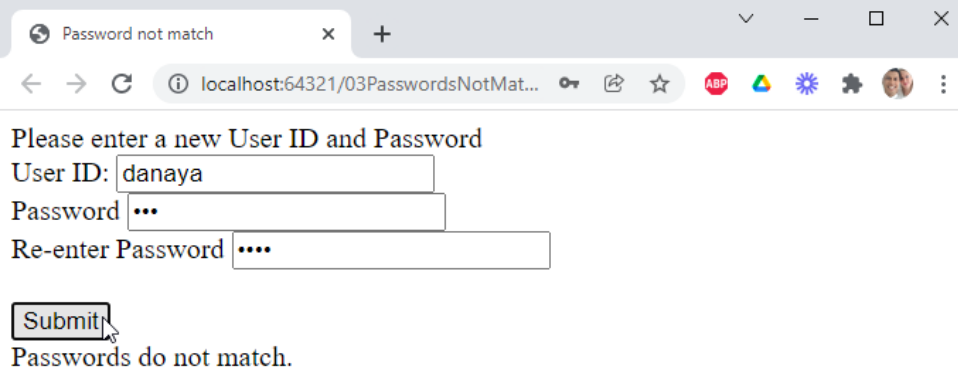
Submit

There were errors on the page:

- User ID is required.

# 03PasswordsNotMatch.aspx

```
1 <!DOCTYPE html>
2
3 <html xmlns="http://www.w3.org/1999/xhtml">
4 <head>
5   <title>Password not match</title>
6 </head>
7 <body>
8   <form id="form1" runat="server">
9     <div>
10      <asp:Label ID="Label1" runat="server"
11        Text="Please enter a new User ID and Password"></asp:Label>
12      <br />
13      <asp:Label ID="Label2" runat="server" Text="User ID:"></asp:Label>
14      <asp:TextBox ID="txtID" runat="server"></asp:TextBox>
15      <br />
16      <asp:Label ID="Label3" runat="server" Text="Password"></asp:Label>
17      <asp:TextBox type="password" ID="txtPassword" runat="server"></asp:TextBox>
18      <br />
19      <asp:Label ID="Label4" runat="server" Text="Re-enter Password"></asp:Label>
20      <asp:TextBox type="password" ID="txtRePassword" runat="server"></asp:TextBox>
21      <br />
22      <br />
23      <asp:Button type="submit" ID="cmdSubmit" runat="server" Text="Submit" />
24    </div>
25    <asp:CompareValidator ID="CompareValidator1" runat="server"
26      ControlToValidate="txtRePassword"
27      ControlToCompare="txtPassword"
28      ErrorMessage="Passwords do not match." />
29  </form>
30 </body>
31 </html>
```



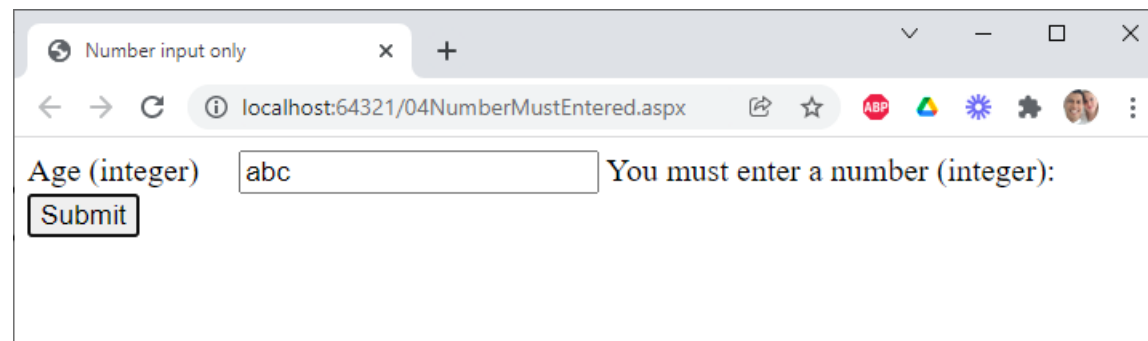
The screenshot shows a web browser window with the title "Password not match". The address bar shows the URL "localhost:64321/03PasswordsNotMat...". The page content includes a form with the following elements:

- A label: "Please enter a new User ID and Password"
- A text input field for "User ID" containing the value "danaya".
- A password input field for "Password" with masked characters "..."
- A password input field for "Re-enter Password" with masked characters "..."
- A "Submit" button.

Below the form, a red error message is displayed: "Passwords do not match."

# 04NumberMustEntered.aspx

```
04NumberMustEntered.aspx x
1 <!DOCTYPE html>
2
3 <html xmlns="http://www.w3.org/1999/xhtml">
4 <head>
5     <title>Number input only</title>
6 </head>
7 <body>
8     <form id="form1" runat="server">
9         <div>
10             <asp:Label ID="Label1" runat="server"
11                 Text="Age (integer)"></asp:Label>
12             &nbsp;&nbsp;&nbsp;&nbsp;
13             <asp:TextBox ID="TextBox1" runat="server"
14                 MaxLength="3"></asp:TextBox>
15             <asp:CompareValidator id="CompareValidator1" runat="server"
16                 ErrorMessage="You must enter a number (integer):"
17                 ControlToValidate="TextBox1" Type="Integer"
18                 Operator="DataTypeCheck"></asp:CompareValidator>
19             <br />
20             <asp:Button ID="Button1" runat="server" Text="Submit" />
21         </div>
22     </form>
23 </body>
24 </html>
```

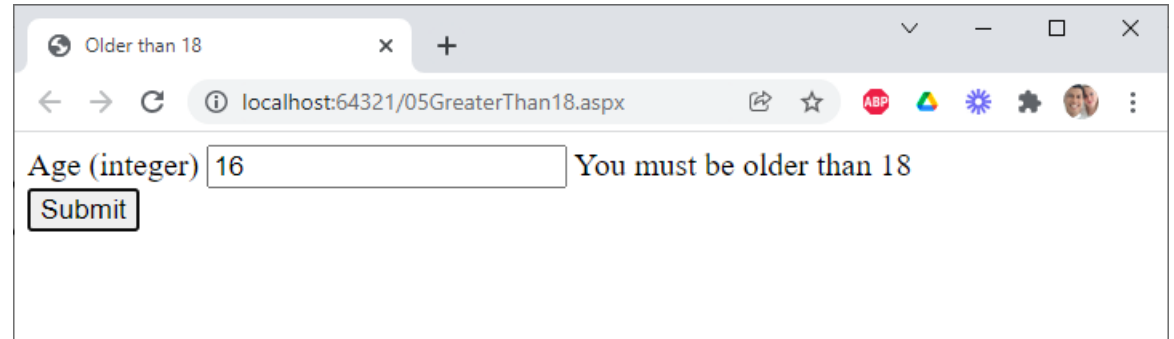


A screenshot of a web browser window titled "Number input only". The address bar shows the URL "localhost:64321/04NumberMustEntered.aspx". The page content includes a label "Age (integer)" followed by a text box containing the text "abc". To the right of the text box is an error message: "You must enter a number (integer):". Below the text box is a "Submit" button.



# 05GreaterThanOrEqualTo18.aspx

```
05GreaterThanOrEqualTo18.aspx -> X
1 <!DOCTYPE html>
2
3 <html xmlns="http://www.w3.org/1999/xhtml">
4 <head>
5   <title>Older than 18</title>
6 </head>
7 <body>
8   <form id="form1" runat="server">
9     <div>
10      <asp:Label ID="Label1" runat="server"
11        Text="Age (integer)"></asp:Label>
12      <asp:TextBox ID="TextBox1" runat="server"
13        MaxLength="3"></asp:TextBox>
14      <asp:CompareValidator id="CompareValidator1" runat="server"
15        Operator="GreaterThan" ValueToCompare="18"
16        ControlToValidate="TextBox1"
17        ErrorMessage="You must be older than 18"
18        Type="Integer">
19      </asp:CompareValidator>
20      <br />
21      <asp:Button ID="Button1" runat="server" Text="Submit"/>
22    </div>
23  </form>
24 </body>
25 </html>
```



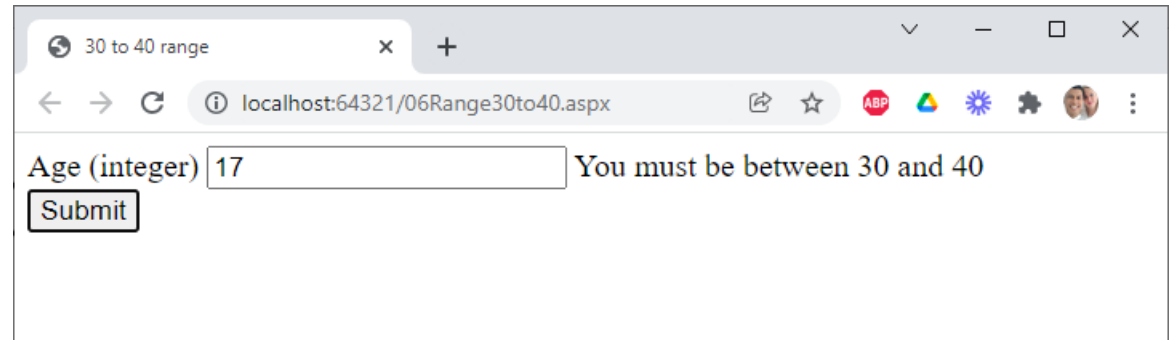
Older than 18

Age (integer) 16 You must be older than 18

Submit

# 06Range30to40.aspx

```
06Range30to40.aspx - X
1 <!DOCTYPE html>
2
3 <html xmlns="http://www.w3.org/1999/xhtml">
4 <head>
5   <title>30 to 40 range</title>
6 </head>
7 <body>
8   <form id="form1" runat="server">
9     <div>
10      <asp:Label ID="Label1" runat="server"
11        Text="Age (integer)"></asp:Label>
12      <asp:TextBox ID="TextBox1" runat="server"
13        MaxLength="3"></asp:TextBox>
14      <asp:RangeValidator id="RangeValidator1" runat="server"
15        ControlToValidate="TextBox1" Type="Integer"
16        ErrorMessage="You must be between 30 and 40"
17        MaximumValue="40" MinimumValue="30">
18    </asp:RangeValidator>
19    <br />
20    <asp:Button ID="Button1" runat="server" Text="Submit"/>
21  </div>
22 </form>
23 </body>
24 </html>
```



The screenshot shows a web browser window with the title "30 to 40 range". The address bar displays "localhost:64321/06Range30to40.aspx". The page content includes a form with a label "Age (integer)", a text input field containing the value "17", and a "Submit" button. To the right of the input field, the error message "You must be between 30 and 40" is displayed.

# 07CodeRange.aspx

```
07CodeRange.aspx - X
1 <!DOCTYPE html>
2
3 <html xmlns="http://www.w3.org/1999/xhtml">
4 <head>
5   <title>Code filling</title>
6 </head>
7 <body>
8   <form id="form1" runat="server">
9     <div>
10      <asp:Label ID="Label1" runat="server" Text="Your code (A-Z):"></asp:Label>
11      <asp:TextBox ID="TextBox1" Width="15" runat="server"
12        MaxLength="1"></asp:TextBox>
13      <asp:RangeValidator id="RangeValidator1" runat="server"
14        ControlToValidate="TextBox1"
15        ErrorMessage="Your code needs to be between A and D"
16        MaximumValue="D" MinimumValue="A">
17    </asp:RangeValidator>
18    <br />
19    <asp:Button ID="Button1" runat="server" Text="Submit"/>
20    </div>
21  </form>
22 </body>
23 </html>
```

Code filling

localhost:64321/07CodeRange.aspx

Your code (A-Z): K Your code needs to be between A and D

Submit

# 08PasswordsRegEx.aspx

```
08PasswordsRegEx.aspx x
1 <!DOCTYPE html>
2
3 <html xmlns="http://www.w3.org/1999/xhtml">
4 <head>
5   <title>RegEx for password</title>
6 </head>
7 <body>
8   <form id="form1" runat="server">
9     <div>
10      <asp:Label ID="Label1" runat="server"
11        Text="Please enter a new User ID and Password"></asp:Label>
12      <br />
13      <br />
14      <asp:Label ID="Label2" runat="server" Text="User ID:"></asp:Label>
15      <asp:TextBox ID="txtID" runat="server"></asp:TextBox>
16      <asp:RegularExpressionValidator ID="RegularExpressionValidator1"
17        runat="server"
18        ControlToValidate="txtID"
19        ErrorMessage="ID must be 6-10 letters."
20        ValidationExpression="[a-zA-Z]{6,10}" />
21      <br />
22      <asp:Label ID="Label3" runat="server" Text="Password:"></asp:Label>
23      <asp:TextBox type="password" ID="txtPassword" runat="server"></asp:TextBox>
24      <asp:RegularExpressionValidator ID="RegularExpressionValidator3"
25        runat="server"
26        display="Dynamic"
27        ControlToValidate="txtPassword"
28        ErrorMessage="Password must be 4-12 nonblank characters."
29        ValidationExpression="[^\s]{4,12}" />
```

```
30 <asp:RegularExpressionValidator ID="RegularExpressionValidator2"
31   runat="server"
32   display="Dynamic"
33   ControlToValidate="txtPassword"
34   ErrorMessage="Password must contain one of @#$$%^&*./"
35   ValidationExpression=".*[@#$$%^&*./].*" />
36 <!-- If TextBox is empty the RegularExpressionValidator doesn't works.
37   So, we need to use the RequiredFieldValidator, too. -->
38 <asp:RequiredFieldValidator ID="RequiredFieldValidator1"
39   runat="server" ControlToValidate="txtPassword"
40   Display="Dynamic" ErrorMessage="Password should not be blank." />
41 <br />
42 <asp:Label ID="Label4" runat="server" Text="Re-enter Password:"></asp:Label>
43 <asp:TextBox type="password" ID="txtRePassword" runat="server"></asp:TextBox>
44 <br />
45 <br />
46 <asp:Button type="submit" ID="cmdSubmit" runat="server" Text="Submit" />
47 </div>
48 </form>
49 </body>
50 </html>
```

RegEx for password

Please enter a new User ID and Password

User ID:

Password:  Password must contain one of @#\$\$%^&\*./

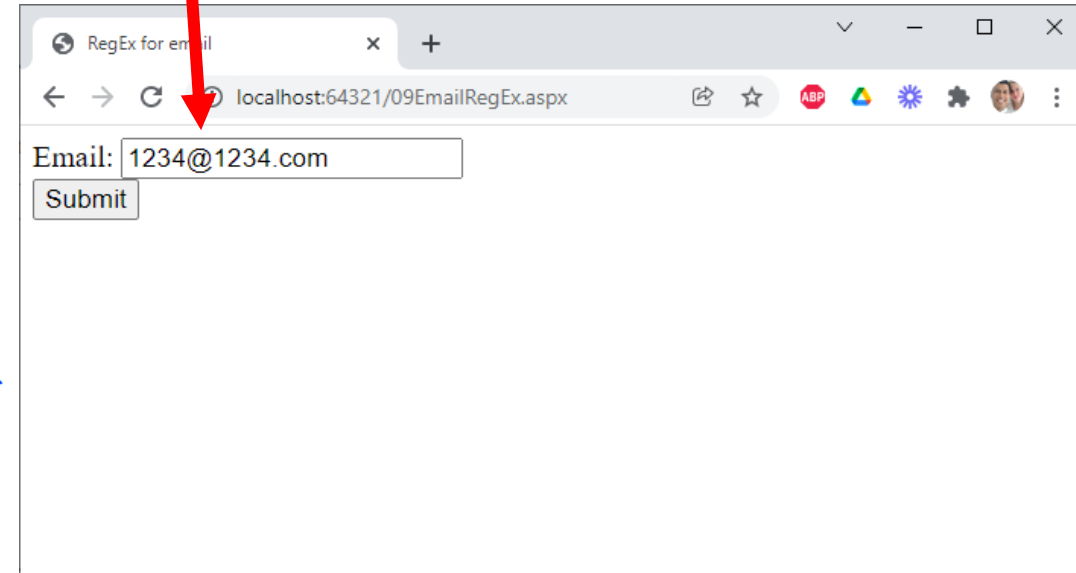
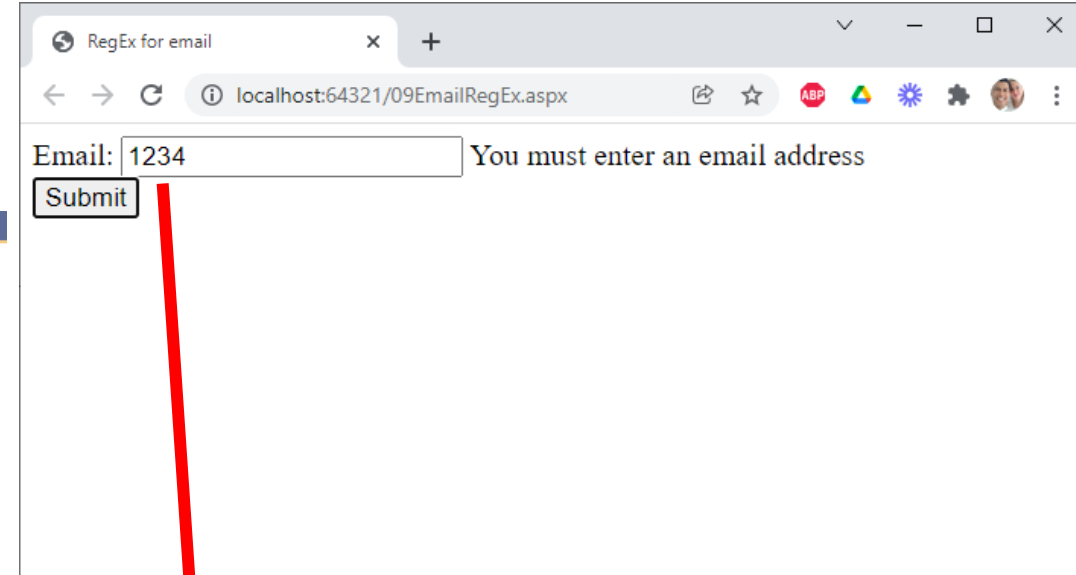
Password must be 4-12 nonblank characters.

Re-enter Password:

# 09EmailRegEx.aspx

```
1 <!DOCTYPE html>
2
3 <html xmlns="http://www.w3.org/1999/xhtml">
4 <head>
5   <title>RegEx for email</title>
6 </head>
7 <body>
8   <form id="form1" runat="server">
9     <div>
10      <asp:Label ID="Label1" runat="server" Text="Email:"></asp:Label>
11      <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
12      <asp:RegularExpressionValidator
13        id="RegularExpressionValidator1" runat="server"
14        ControlToValidate="TextBox1"
15        ErrorMessage="You must enter an email address"
16        ValidationExpression="\w+([-+.]\w+)*@\w+([-.]\w+)*\.\w+([-.]\w+)*">
17    </asp:RegularExpressionValidator>
18    <!-- If TextBox is empty the RegularExpressionValidator doesn't works.
19         So, we need to use the RequiredFieldValidator, too. -->
20    <asp:RequiredFieldValidator ID="RequiredFieldValidator1"
21      runat="server" ControlToValidate="TextBox1"
22      Display="Dynamic" ErrorMessage="Email address should not be blank" />
23    <br />
24    <asp:Button ID="Button1" runat="server" Text="Submit" />
25    </div>
26  </form>
27 </body>
28 </html>
```

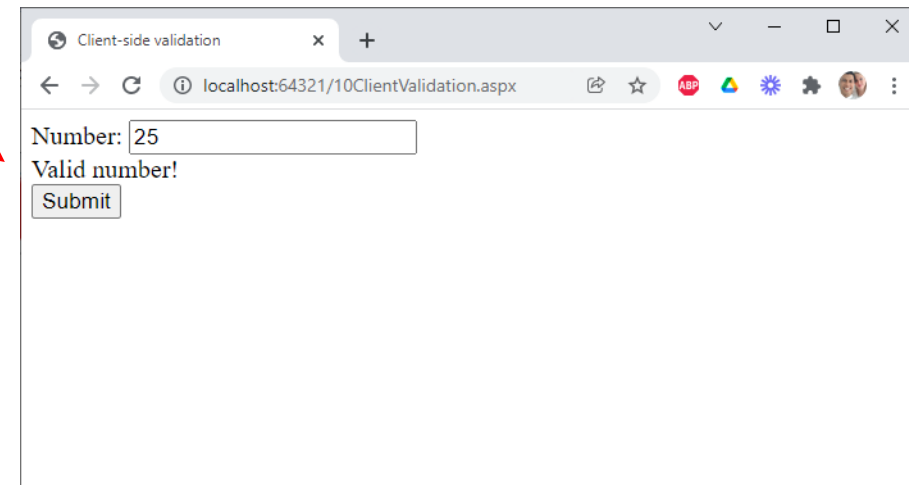
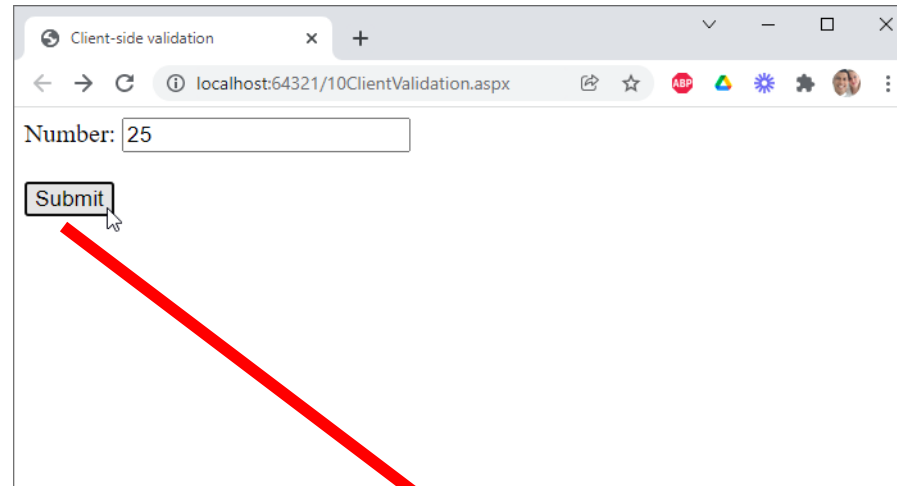
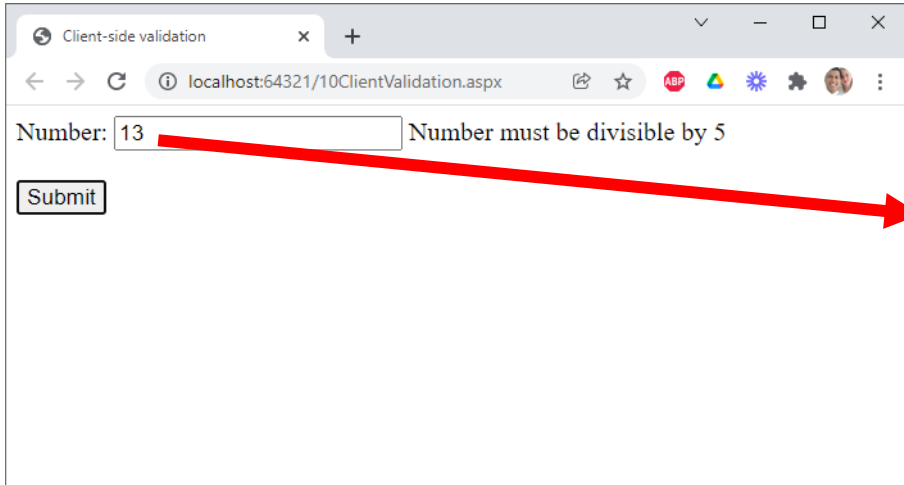
28.11.2023



# 10ClientValidation.aspx

```
10ClientValidation.aspx
1 <%@ Page Language="C#" %>
2 <!DOCTYPE html>
3
4 <html xmlns="http://www.w3.org/1999/xhtml">
5 <head>
6     <title>Client-side validation</title>
7     <script runat="server">
8         void Button1_Click(Object sender, EventArgs e) {
9             if (Page.IsValid) {
10                Label2.Text = "Valid number!";
11            } else {
12                Label2.Text = "Invalid number!";
13            }
14        }
15    </script>
16    <script type="text/JavaScript">
17        function validateNumber(oSrc, args) {
18            args.IsValid = (args.Value % 5 == 0);
19        }
20    </script>
21 </head>
22 <body>
23     <form id="form1" runat="server">
24         <div>
25             <asp:Label ID="Label1" runat="server" Text="Number:"></asp:Label>
26             <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
27             <asp:CustomValidator id="CustomValidator1"
28                 runat="server" ControlToValidate="TextBox1"
29                 ErrorMessage="Number must be divisible by 5"
30                 ClientValidationFunction="validateNumber">
31             </asp:CustomValidator>
32             <br />
33             <asp:Label ID="Label2" runat="server"></asp:Label>
34             <br />
35             <asp:Button ID="Button1" runat="server" Text="Submit"
36                 onclick="Button1_Click"/>
37         </div>
38     </form>
39 </body>
40 </html>
```

# 10ClientValidation (Output)

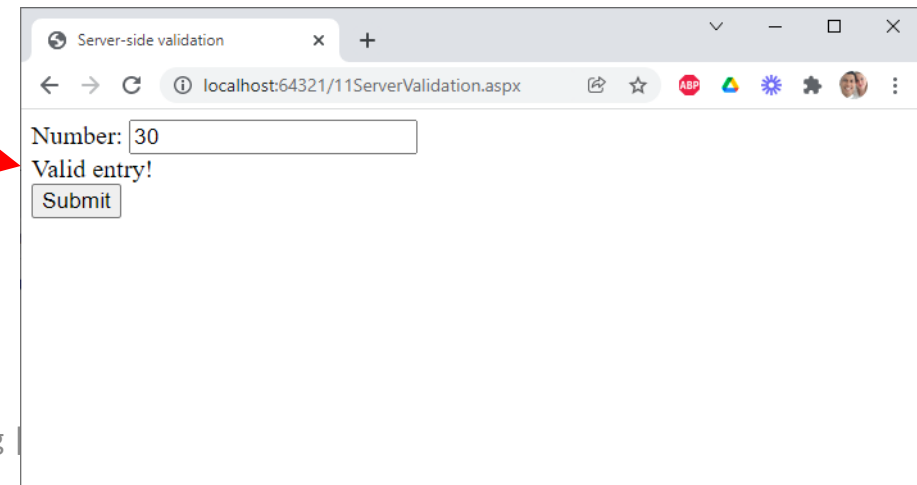
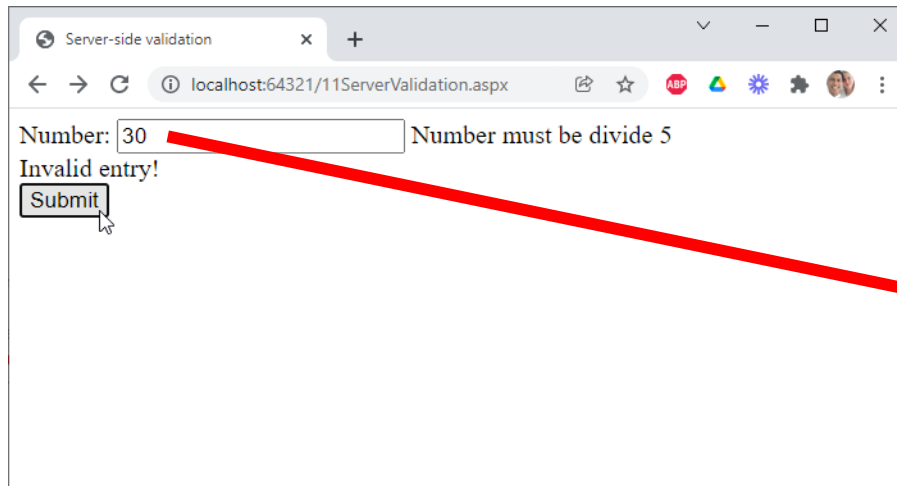
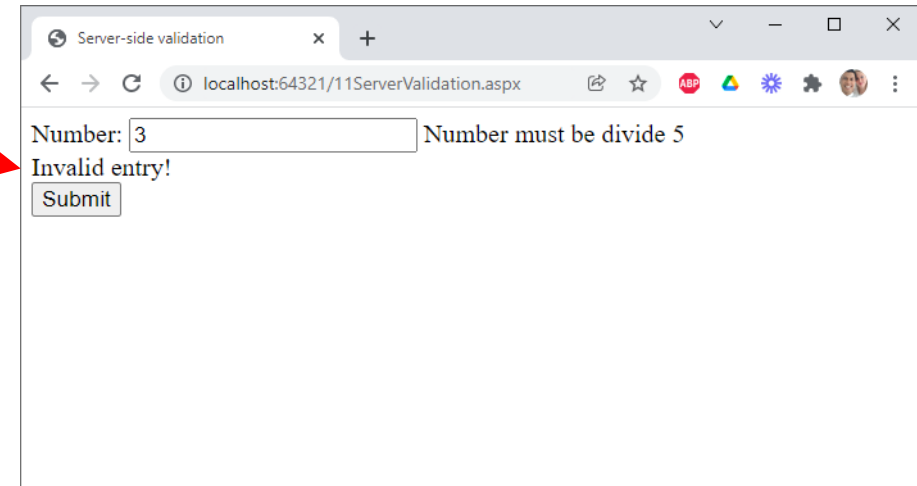
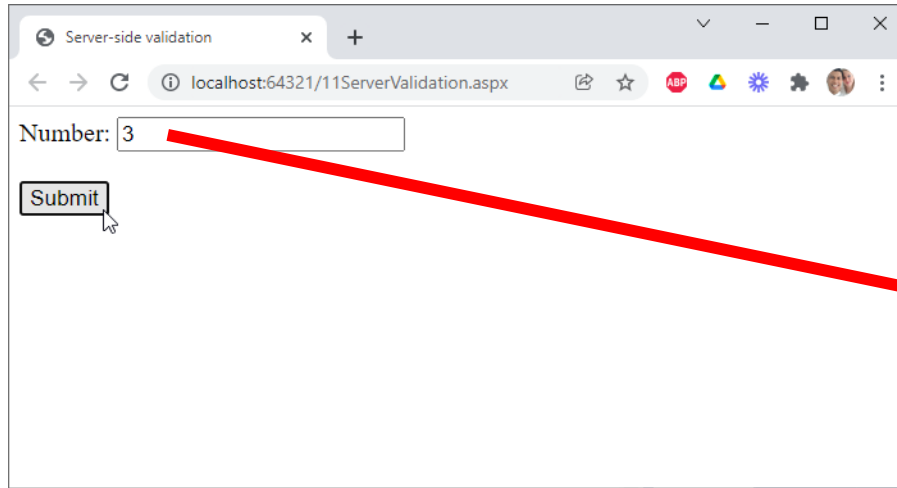


# 11ServerValidation.aspx

```
1 <%@ Page Language="C#" %>
2 <!DOCTYPE html>
3
4 <html xmlns="http://www.w3.org/1999/xhtml">
5 <head runat="server">
6     <title>Server-side validation</title>
7     <script runat="server">
8         void Button1_Click(Object sender, EventArgs e) {
9             if (Page.IsValid) {
10                Label2.Text = "Valid entry!";
11            } else {
12                Label2.Text = "Invalid entry!";
13            }
14        }
15        void ValidateNumber(object source, ServerValidateEventArgs args) {
16            try {
17                int num = int.Parse(args.Value);
18                args.IsValid = ((num % 5) == 0);
19            } catch(Exception ex) {
20                args.IsValid = false;
21            }
22        }
23    }
24 </script>
25 </head>
26 <body>
27     <form id="form1" runat="server">
28         <div>
29             <asp:Label ID="Label1" runat="server" Text="Number:"></asp:Label>
30             <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
31             <asp:CustomValidator id="CustomValidator1"
32                 runat="server" ControlToValidate="TextBox1"
33                 ErrorMessage="Number must be divide 5"
34                 OnServerValidate="ValidateNumber">
35             </asp:CustomValidator>
36             <br />
37             <asp:Label ID="Label2" runat="server"></asp:Label>
38             <br />
39             <asp:Button ID="Button1" runat="server" Text="Submit"
40                 onclick="Button1_Click"/>
41         </div>
42     </form>
43 </body>
44 </html>
```



# 11ServerValidation (Output)



# 12ValidationSummary.aspx

```
12ValidationSummary.aspx
1 <%@ Page Language="C#" %>
2 <!DOCTYPE html>
3
4 <html xmlns="http://www.w3.org/1999/xhtml">
5 <head runat="server">
6 <title>Validation summary</title>
7 <script runat="server">
8     void Button1_Click(Object sender, EventArgs e) {
9         if (Page.IsValid) {
10             Label3.Text = "Valid entry!";
11         } else {
12             Label3.Text = "Invalid entry!";
13         }
14     }
15 </script>
16 </head>
```

```
17 <body>
18 <form id="form1" runat="server">
19 <div>
20 <asp:Label ID="Label1" runat="server" Text="First name:"></asp:Label>
21 <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
22 <asp:RequiredFieldValidator id="RequiredFieldValidator1"
23     runat="server"
24     ErrorMessage="You must enter your first name"
25     ControlToValidate="TextBox1">
26 </asp:RequiredFieldValidator>
27 <br />
28 <asp:Label ID="Label2" runat="server" Text="Last name:"></asp:Label>
29 <asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
30 <asp:RequiredFieldValidator id="RequiredFieldValidator2"
31     runat="server"
32     ErrorMessage="You must enter your last name"
33     ControlToValidate="TextBox2">
34 </asp:RequiredFieldValidator>
35 <br />
36 <br />
37 <asp:Button ID="Button1" runat="server" Text="Submit"
38     onclick="Button1_Click"/>
39 <br />
40 <asp:Label ID="Label3" runat="server"></asp:Label>
41 <asp:ValidationSummary id="ValidationSummary1"
42     runat="server"
43     HeaderText="You received the following errors:">
44 </asp:ValidationSummary>
45 </div>
46 </form>
47 </body>
48 </html>
```

# 12ValidationSummary (Output)

Validation summary

localhost:64321/12ValidationSummary.aspx

First name:

Last name:

Submit

Validation summary

localhost:64321/12ValidationSummary.aspx

First name:  You must enter your first name

Last name:  You must enter your last name

Submit

You received the following errors:

- You must enter your first name
- You must enter your last name

Validation summary

localhost:64321/12ValidationSummary.aspx

First name:  You must enter your first name

Last name:  You must enter your last name

Submit

You received the following errors:

- You must enter your first name
- You must enter your last name

Validation summary

localhost:64321/12ValidationSummary.aspx

First name:  You must enter your first name

Last name:  You must enter your last name

Submit

You received the following errors:

- You must enter your first name
- You must enter your last name

Validation summary

localhost:64321/12ValidationSummary.aspx

First name:  You must enter your first name

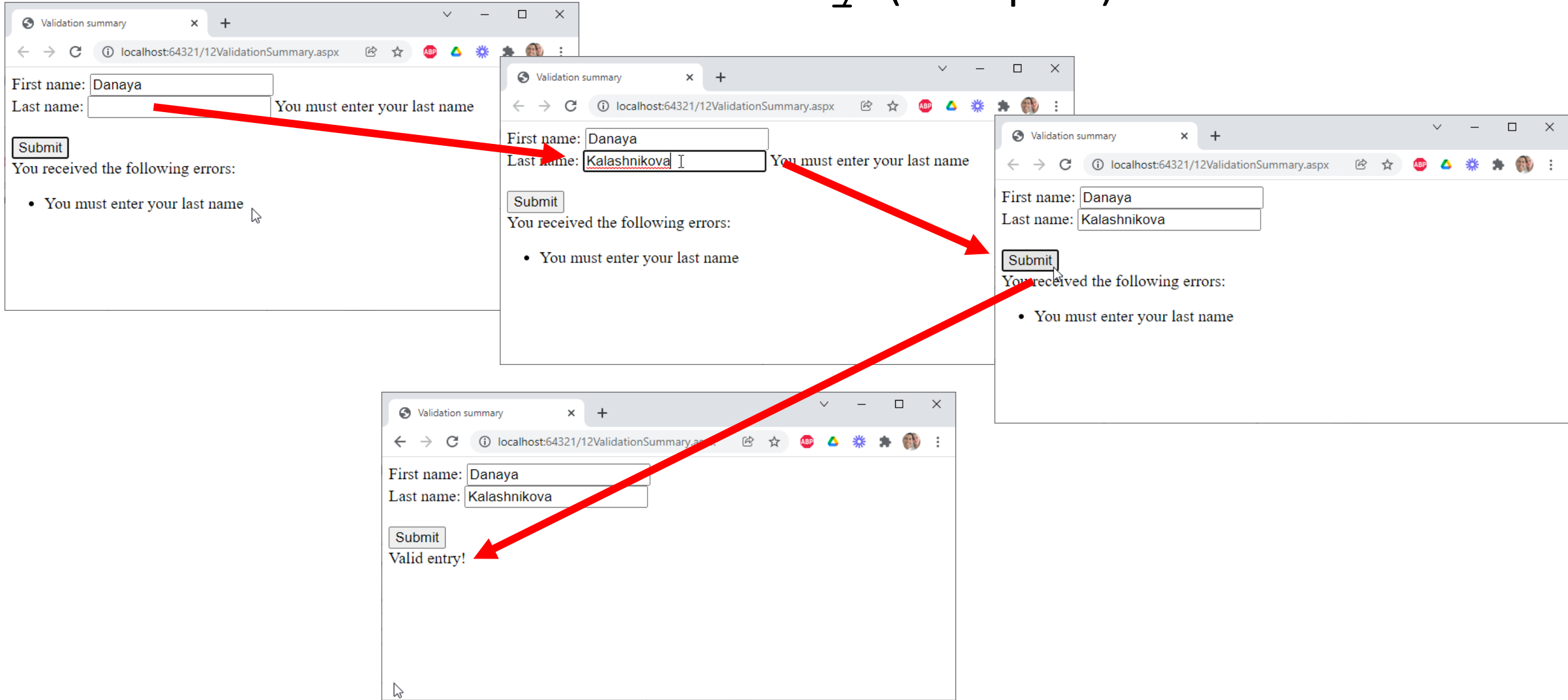
Last name:  You must enter your last name

Submit

You received the following errors:

- You must enter your last name

# 12ValidationSummary (Output)



# User control: Definition

- Aside using Web server control in ASP.NET Web pages, we can build our own control, namely `user control`.
- A user control can be used by similar technique as in building ASP.NET Web pages.
- A user control is composite control works as ASP.NET Web control.
- This control can be embedded in ASP.NET Web pages, used as an unit.

# User control: Building

- How to build a user control?
  - Rename the control's name so that its extension become `.ascx`
  - Delete all element codes: `HTML`, `body` and `form`
  - Rename `page` directive (`@Page`) to `control` directive (`@Control`)
  - Delete all attributes in `@Control` directive except: `Language`, `AutoEventWireup` (if exists), `CodeFile` and `Inherits`
  - Insert the attribute `className` in `@Control` directive, so that a user control follows typing guidance of its respective class

# 13UserControl.aspx

```
13UserControl.aspx  X
1 <%@ Page Language="C#" AutoEventWireup="true" %>
2 <%@ Register TagPrefix="my"
3     TagName="MoneyField"
4     Src="MoneyField.ascx" %>
5
6 <!DOCTYPE html>
7
8 <html xmlns="http://www.w3.org/1999/xhtml">
9 <head runat="server">
10 <title>User control</title>
11 </head>
12 <body>
13 <form id="form1" runat="server">
14 <div>
15     Amount 1: <my:MoneyField ID="field1" Text="100"
16         Runat="server" /><br>
17     Amount 2: <my:MoneyField ID="field2"
18         Runat="server" />
19 </div>
20 </form>
21 </body>
22 </html>
```

```
MoneyField.ascx  X
1 <%@ Control Language="C#"
2     AutoEventWireup="true"
3     CodeFile="MoneyField.ascx.cs"
4     Inherits="MoneyField" %>
5 <asp:TextBox ID="amount" Runat="server" />
6 <asp:DropDownList ID="currency" AutoPostBack="true"
7     OnSelectedIndexChanged="Select" Runat="server">
8 <asp:ListItem Text="Euro" Value="1.0" Selected="true" />
9 <asp:ListItem Text="Dollars" Value="0.88" />
10 <asp:ListItem Text="Francs" Value="1.47" />
11 <asp:ListItem Text="Pounds" Value="0.62" />
12 </asp:DropDownList>
```

```
MoneyField.ascx.cs  X
97_MoneyField.ascx  MoneyField
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Web;
5 using System.Web.UI;
6 using System.Web.UI.WebControls;
7
8 public partial class MoneyField : System.Web.UI.UserControl {
9     public string Text {
10         get { return amount.Text; }
11         set { amount.Text = value; }
12     }
13     private double OldRate {
14         get {
15             return
16                 ViewState["rate"] == null ? 1 : (double)ViewState["rate"];
17         }
18         set {
19             ViewState["rate"] = value;
20         }
21     }
22     public void Select(object sender, EventArgs arg) {
23         try {
24             double val = Convert.ToDouble(amount.Text);
25             double newRate = Convert.ToDouble(currency.SelectedItem.Value);
26             double newVal = val / OldRate * newRate;
27             amount.Text = newVal.ToString("F2");
28             OldRate = newRate;
29         } catch (Exception) {
30             amount.Text = "0";
31         }
32     }
33 }
```

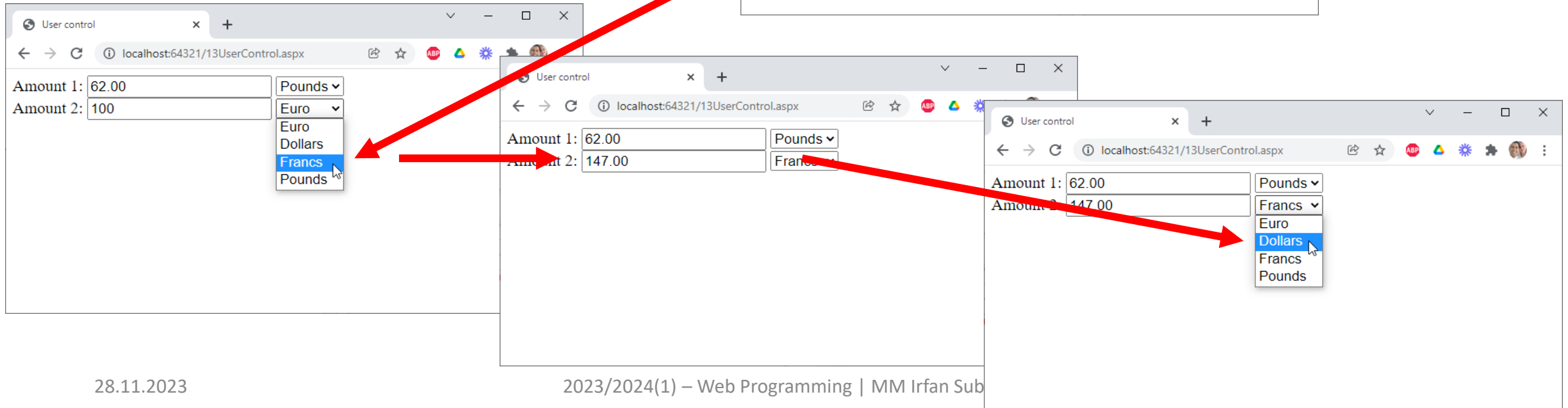
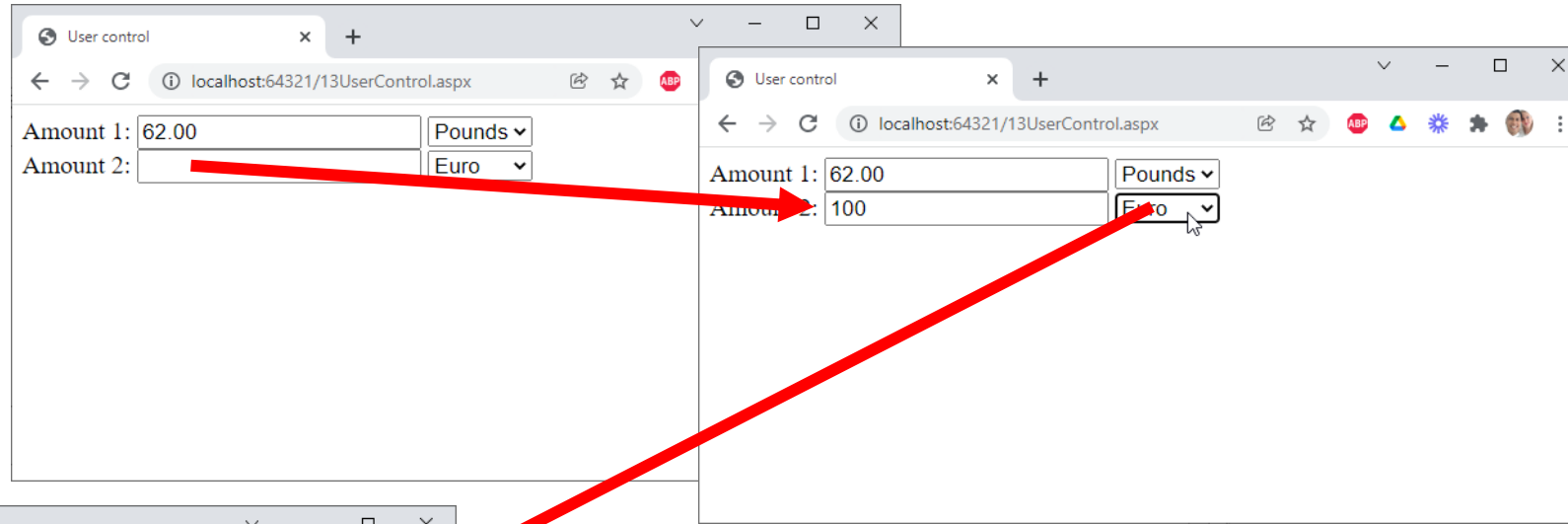
# 13UserController (Output)

The image displays four sequential browser screenshots of a web application, illustrating the state of a currency conversion interface. Red arrows trace the sequence of user actions and resulting data changes:

- Screenshot 1 (Top Left):** The interface shows two input fields. "Amount 1" contains the value "100" and its dropdown menu is set to "Euro". "Amount 2" is empty and also set to "Euro".
- Screenshot 2 (Top Middle):** The user has selected "Dollars" from the "Amount 1" dropdown menu. The dropdown list is open, showing "Euro", "Dollars", "Francs", and "Pounds".
- Screenshot 3 (Top Right):** The result of the conversion is shown. "Amount 1" now displays "88.00" and the dropdown is set to "Dollars". "Amount 2" remains empty and is set to "Euro".
- Screenshot 4 (Bottom Left):** The user has selected "Pounds" from the "Amount 1" dropdown menu. The dropdown list is open, showing "Euro", "Dollars", "Francs", and "Pounds".
- Screenshot 5 (Bottom Right):** The final result is shown. "Amount 1" displays "62.00" and the dropdown is set to "Pounds". "Amount 2" remains empty and is set to "Euro".



# 13UserController (Output)



# 13UserController (Output)

