simple-validation-example.html

<!DOCTYPE **html**>

<**html**>

<**head**>

<**title**>Hello Javascript</**title**>

<**script** type = "text/javascript">

**function** **validateForm**() {

**var** u = document.**getElementById**("username").value;

**var** p = document.**getElementById**("password").value;

**if**(u== "") {

**alert**("Please enter your Username");

**return** false;

}

**if**(p == "") {

**alert**("Please enter you Password");

**return** false;

}

**alert**("All datas are valid!, send it to the server!")

**return** true;

}

</**script**>

</**head**>

<**body**>

<**h2**>Enter your Username and Password</**h2**>

<**div** style="border:1px solid #ddd; padding: 5px;">

<**form** method="GET" action="process-action.html" onsubmit = "return validateForm()">

Username: <**input** type="text" name="username" id="username"/>

<**br**><**br**>

Password: <**input** type="password" name = "password" id="password"/>

<**br**><**br**>

<**button** type="submit">Submit</**button**>

</**form**>

</**div**>

</**body**>

</**html**>

process-action.html

<!DOCTYPE **html**>

<**html**>

<**head**>

<**title**>Process Action</**title**>

</**head**>

<**body**>

<**h3**>Process Action Page</**h3**>

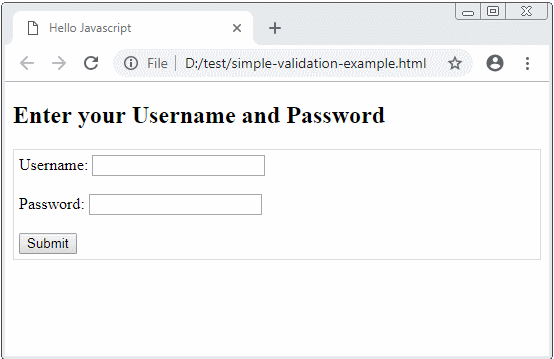
OK, I got data!

<**br**/><**br**/>

<**a** href="javascript:history.back();">[Go Back]</**a**>

</**body**>

</**html**>



3- Access the form data

Access a field data through the field ID.

<**input** type="text" id="username"/>

<**input** type="password" id="password"/>

// Access field via ID:

**var** field = document.**getElementById**("fieldId");

**var** value = field.value;

Access Form fields through the name attribute:

<**form** name="myForm" ...>

<**input** type="text" name="username"/>

<**input** type="password" name = "password"/>

<**button** type="submit">Submit</**button**>

</**form**>

// Get form via form name:

**var** myForm = document.forms["myForm"];

**var** u = myForm["username"].value;

**var** p = myForm["password"].value;

When a user enters inaccurate data on a form field, you should notify the user and focus on that field.

validation-example1.html

<!DOCTYPE **html**>

<**html**>

<**head**>

<**title**>Validation</**title**>

<**script** type = "text/javascript">

**function** **validateForm**() {

// Get form via form name:

**var** myForm = document.forms["myForm"];

**var** u = myForm["username"].value;

**var** p = myForm["password"].value;

**if**(u== "") {

**alert**("Please enter your Username");

myForm["username"].**focus**(); // Focus

**return** false;

}

**if**(p == "") {

**alert**("Please enter you Password");

myForm["password"].**focus**(); // Focus

**return** false;

}

**alert**("All datas are valid!, send it to the server!")

**return** true;

}

</**script**>

</**head**>

<**body**>

<**h2**>Enter your Username and Password</**h2**>

<**div** style="border:1px solid #ddd; padding: 5px;">

<**form** name="myForm" method="GET" action="process-action.html" onsubmit = "return validateForm()">

Username: <**input** type="text" name="username"/>

<**br**><**br**>

Password: <**input** type="password" name = "password"/>

<**br**><**br**>

<**button** type="submit">Submit</**button**>

</**form**>

</**div**>

</**body**>

</**html**>

Example: Ask an user to enter a number between 0 and 10.

validation-number-example.html

<!DOCTYPE **html**>

<**html**>

<**head**>

<**title**>Validation</**title**>

<**script** type = "text/javascript">

**function** **validateForm**() {

**var** myField = document.**getElementById**("myNumber");

**var** value = myField.value;

**if**( value == "" || isNaN(value) || value < 0 || value > 10) {

**alert**("Invalid input!");

myField.**focus**();

**return** false;

}

**return** true;

}

</**script**>

</**head**>

<**body**>

<**h2**>Enter a Number between 0 and 10</**h2**>

<**div** style="border:1px solid #ddd; padding: 5px;">

<**form** name="myForm" action="process-action.html" onsubmit = "return validateForm()">

Number: <**input** type="text" id= "myNumber"/>

<**br**/><**br**/>

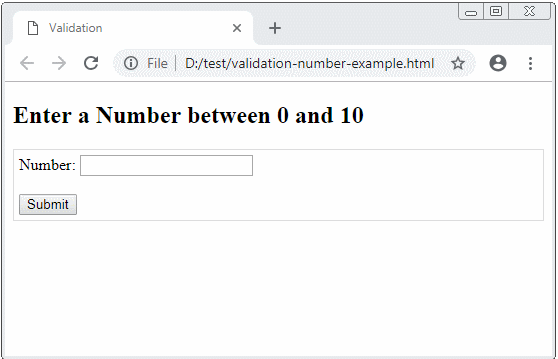
<**button** type="submit">Submit</**button**>

</**form**>

</**div**>

</**body**>

</**html**>



4- Submit through Javascript

Clicking <button type="submit"> or <input type="submit"> inside form helps you to send the data of this form to the server, however, you can also do it through Javascript.

javascript-submit-example.html

<!DOCTYPE **html**>

<**html**>

<**head**>

<**title**>Javascript Submit</**title**>

<**script** type = "text/javascript">

**function** **validateForm**() {

**var** name = document.forms["myForm"]["fullName"].value;

**if**(name == "") {

**alert**("Please enter your name");

**return** false;

}

**return** true;

}

**function** **submitByJavascript**() {

**var** valid = **validateForm**();

**if**(!valid) {

**return**;

}

**var** myForm = document.forms["myForm"];

myForm.**submit**();

}

</**script**>

</**head**>

<**body**>

<**h2**>Submit a from with Javascript</**h2**>

<**div** style="border:1px solid #ddd; padding: 5px;">

<**form** name="myForm" action="process-action.html" onsubmit = "return validateForm()">

Your Name: <**input** type="text" name = "fullName" value =""/>

<**br**/><**br**/>

<**button** type="submit">Submit</**button**>

</**form**>

</**div**>

<**br**/>

<!-- A Button outside the form -->

Button outside the form:

<**button** onclick="submitByJavascript()">Click Me to submit form</**button**>

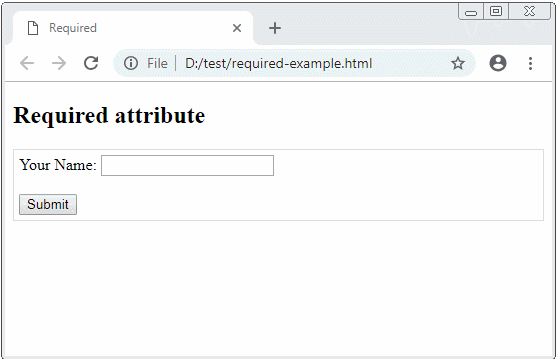
</**body**>

</**html**>

5- Validate automatically

The browser can automatically validate several types of data on the form, such as adding a required attribute to a form field to tell the browser that this field is mandatory. The browser will automatically check and notify an user if an user does not enter that field.

*Note: Too old browsers such as IE version 9 or older do not support automatic validate.*



required-example.html

<!DOCTYPE **html**>

<**html**>

<**head**>

<**title**>Required</**title**>

</**head**>

<**body**>

<**h2**>Required attribute</**h2**>

<**div** style="border:1px solid #ddd; padding: 5px;">

<**form** name="myForm" action="process-action.html" onsubmit = "return validateForm()">

Your Name: <**input** type="text" name = "fullName" value ="" required/>

<**br**/><**br**/>

<**button** type="submit">Submit</**button**>

</**form**>

</**div**>

</**body**>

</**html**>

Some <input> elements newly introduced in HTML 5, for example *color, date, datetime-local, email, month, number, range, search, tel, time, url, week*,. These elements have special attributes to help the browser to know how to validate its data automatically. Below is list of some such attributes:

|  |  |
| --- | --- |
| **Attribute** | **Description** |
| disabled | Specifies that the Input element should be disabled |
| max | Specifies the maximum value of an Input element |
| min | Specifies the minimum value of an Input element |
| pattern | Specifies the value pattern of an Input element |
| required | Specifies that the Input field requires an element |
| type | Specifies the type of an Input element |

*See the details of the list of <input> elements and attributes corresponding to each of these elements:*

* *TODO Link?*

Example: A <input type="number"> with min, max attributes, the browser will notify an user if he/she enters a number beyond the allowed range.

attr-min-max-example.html

<!DOCTYPE **html**>

<**html**>

<**head**>

<**title**>Min Max Attributes</**title**>

</**head**>

<**body**>

<**h2**>Attribute min, max</**h2**>

<**div** style="border:1px solid #ddd; padding: 5px;">

<**form** name="myForm" action="process-action.html">

Enter your score (0-100):

<**input** type="number" name = "score" min= "0" max = "100"/>

<**br**/><**br**/>

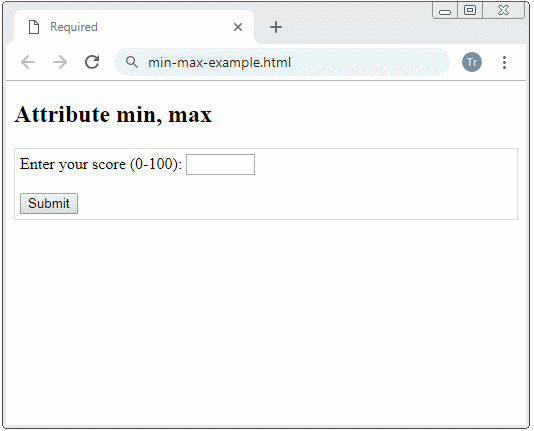
<**button** type="submit">Submit</**button**>

</**form**>

</**div**>

</**body**>

</**html**>



Example: Require an user to enter a country code with 2 characters.

attr-pattern-example.html

<!DOCTYPE **html**>

<**html**>

<**head**>

<**title**>pattern attribute</**title**>

</**head**>

<**body**>

<**h2**>Attribute: pattern</**h2**>

<**div** style="border:1px solid #ddd; padding: 5px;">

<**form** name="myForm" action="process-action.html">

Country code:

<**input** type="text" name = "countryCode" pattern="[A-Za-z]{2}"

title="Two letter country code"/>

<**br**/><**br**/>

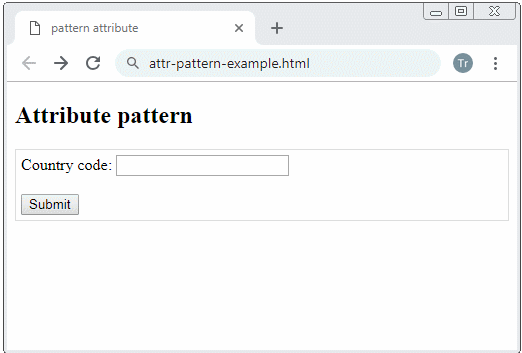
<**button** type="submit">Submit</**button**>

</**form**>

</**div**>

</**body**>

</**html**>



Example: Ask an user to enter a password having at least 8 characters.

attr-pattern-example2.html

<!DOCTYPE **html**>

<**html**>

<**head**>

<**title**>pattern attribute</**title**>

</**head**>

<**body**>

<**h2**>Attribute: pattern</**h2**>

<**div** style="border:1px solid #ddd; padding: 5px;">

<**form** name="myForm" action="process-action.html">

Password:

<**input** type="password" name = "password" pattern=".{8,}"

title="8 or more characters"/>

<**br**/><**br**/>

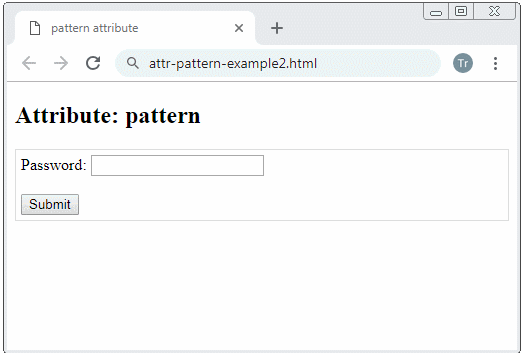
<**button** type="submit">Submit</**button**>

</**form**>

</**div**>

</**body**>

</**html**>



Example: Ask an user to enter a strong password, having at least 8 characters, at least one uppercase, and at least one lowercase.

attr-pattern-password-example.html

<!DOCTYPE **html**>

<**html**>

<**head**>

<**title**>pattern attribute</**title**>

</**head**>

<**body**>

<**h2**>Attribute: pattern</**h2**>

Password must contain 8 or more characters that are of at least one number,

and one uppercase and lowercase letter:

<**br**/><**br**/>

<**div** style="border:1px solid #ddd; padding: 5px;">

<**form** name="myForm" action="process-action.html">

Password:

<**input** type="password" name = "password"

pattern="(?=.\*\d)(?=.\*[a-z])(?=.\*[A-Z]).{8,}"

title="Invalid password!"/>

<**br**/><**br**/>

<**button** type="submit">Submit</**button**>

</**form**>

</**div**>

</**body**>

</**html**>

Example: Ask an user to enter an email address, use the pattern attribute to ensure that the user enters an email in the correct format.

attr-pattern-email-example.html

<!DOCTYPE **html**>

<**html**>

<**head**>

<**title**>pattern attribute</**title**>

</**head**>

<**body**>

<**h2**>Attribute: pattern</**h2**>

<**div** style="border:1px solid #ddd; padding: 5px;">

<**form** name="myForm" action="process-action.html">

Email:

<**input** type="password" name = "password"

pattern="[a-z0-9.\_%+-]+@[a-z0-9.-]+\.[a-z]{2,}$"

title="Invalid password!"/>

<**br**/><**br**/>

<**button** type="submit">Submit</**button**>

</**form**>

</**div**>

</**body**>

</**html**>

<https://o7planning.org/12273/javascript-form-validation>