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Laborator 3

Metode de implementare a unei interfete web grafice- Formulare HTML

Elemente formulare:

🔲 = new in HTML5.

Tag		Description
<form>		Defines an HTML form for user input
<input>		Defines an input control
<textarea>		Defines a multiline input control (text area)
<label>		Defines a label for an <input> element
<fieldset>		Groups related elements in a form
<legend>		Defines a caption for a <fieldset> element
<select>		Defines a drop-down list
<optgroup>		Defines a group of related options in a drop-down list
<option>		Defines an option in a drop-down list
<button>		Defines a clickable button
<datalist>	🔲	Specifies a list of pre-defined options for input controls
<keygen>	🔲	Defines a key-pair generator field (for forms)
<output>	🔲	Defines the result of a calculation

Formularele HTML 5 : compuse din elemente <input>, "text" "radio" sau "submitt"

Type	Description
<input type="text">	Defines a one-line text input field
<input type="radio">	Defines a radio button (for selecting one of many choices)
<input type="submit">	Defines a submit button (for submitting the form)

Cu elemente "text"

```
<!DOCTYPE html>
<html>
<body>

<form>
  First name:<br>
  <input type="text" name="firstname">
  <br>
  Last name:<br>
  <input type="text" name="lastname">
</form>

<p>Note that the form itself is not visible.</p>

<p>Also note that the default width of a text
input field is 20 characters.</p>

</body>
</html>
```

First name:

Last name:

Note that the form itself is not visible.

Also note that the default width of a text input field is 20 characters.

Cu elemente "radio"

```
<!DOCTYPE html>
<html>
<body>

<form>
  <input type="radio" name="gender" value="male" checked> Male<br>
  <input type="radio" name="gender" value="female"> Female<br>
  <input type="radio" name="gender" value="other"> Other
</form>

</body>
</html>
```

○ Male
○ Female
◉ Other

Cu elemente "submitt"

```html
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php">
  First name:<br>
  <input type="text" name="firstname" value="Mickey">
  <br>
  Last name:<br>
  <input type="text" name="lastname" value="Mouse">
  <br><br>
  <input type="submit" value="Submit">
</form>

<p>If you click the "Submit" button, the form-data will be sent to a
page called "action_page.php".</p>

</body>
</html>
```

First name:
Mickey
Last name:
Mouse

Submit

If you click the "Submit" button, the form-data will be sent to a page called "action_page.php".

Atributul Action: defineste actiunea la Submit care implicit trimite datele din formular la server intr-un document "action_page.php"

```html
<form action="action_page.php">
```

Atributul Method : "get" (implicit) sau "post"

❑ **"get":** pentru nr limitat de date si date insenzitive
❑ **"post":** pentru nelimitat de date inclusiv date personale

```html
<form action="action_page.php" method="get">
```

```html
<form action="action_page.php" method="post">
```

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Atributul Name: se atribuie fiecarui element <input>, daca lipseste datele corespunzatoare acelui element nu vor fi trimise

```html
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php">
  First name:<br>
  <input type="text" value="Pop">
  <br>
  Last name:<br>
  <input type="text" name="lastname" value="Anca">
  <br><br>
  <input type="submit" value="Submit">
</form>

<p>If you click the "Submit" button, the form-data
will be sent to a page called "action_page.php".
</p>

<p>Notice that the value of the "First name" field
will not be submitted, because the input element
does not have a name attribute.</p>

</body>
</html>
```

First name:

Pop

Last name:

Anca

Submit

If you click the "Submit" button, the form-data will be sent to a page called "action_page.php".

Notice that the value of the "First name" field will not be submitted, because the input element does not have a name attribute.

Raspunsul la formularul din exemplul anterior

```html
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php">
  First name:<br>
  <input type="text" value="Pop">
  <br>
  Last name:<br>
  <input type="text" name="lastname" value="Anca">
  <br><br>
  <input type="submit" value="Submit">
</form>

<p>If you click the "Submit" button, the form-data
will be sent to a page called "action_page.php".
</p>

<p>Notice that the value of the "First name" field
will not be submitted, because the input element
does not have a name attribute.</p>

</body>
</html>
```

Your input was received as:

lastname=Anca

The server has processed your input and returned this answer.

Note: The HTML tutorial will not teach you how servers are processing input. Processing input is explained in our PHP and ASP tutorials.

Gruparea datelor cu <fieldset> si <legend>

```html
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php">
  <fieldset>
    <legend>Personal information:</legend>
    First name:<br>
    <input type="text" name="firstname" value="Popa">
    <br>
    Last name:<br>
    <input type="text" name="lastname" value="Anca">
    <br><br>
    <input type="submit" value="Trimite">
  </fieldset>
</form>

</body>
</html>
```

Personal information:
First name:
Popa
Last name:
Anca

Trimite

Gruparea datelor cu <fieldset> si <legend> : raspuns

```html
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php">
  <fieldset>
    <legend>Personal information:</legend>
    First name:<br>
    <input type="text" name="firstname" value="Popa">
    <br>
    Last name:<br>
    <input type="text" name="lastname" value="Anca">
    <br><br>
    <input type="submit" value="Trimite">
  </fieldset>
</form>

</body>
</html>
```

Your input was received as:

firstname=Popa&lastname=Anca

The server has processed your input and returned this answer.

Note: The HTML tutorial will not teach you how servers are processing input. Processing input is explained in our PHP and ASP tutorials.

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Alte atribute ale formularelor

Attribute	Description
accept-charset	Specifies the charset used in the submitted form (default: the page charset).
action	Specifies an address (url) where to submit the form (default: the submitting page).
autocomplete	Specifies if the browser should autocomplete the form (default: on).
enctype	Specifies the encoding of the submitted data (default: is url-encoded).
method	Specifies the HTTP method used when submitting the form (default: GET).
name	Specifies a name used to identify the form (for DOM usage: document.forms.name).
novalidate	Specifies that the browser should not validate the form.
target	Specifies the target of the address in the action attribute (default: _self).

Elementul <select>: defineste o lista expandabila (drop-down list)

```
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php">
  <select name="cars">
    <option value="volvo">Volvo</option>
    <option value="saab">Saab</option>
    <option value="fiat">Fiat</option>
    <option value="audi">Audi</option>
  </select>
  <br><br>
  <input type="submit">
</form>

</body>
</html>
```

Elemente preselectate cu <selected> in <select>: defineste elementul preselectat dintr-o lista expandabila (drop-down list)

```
<!DOCTYPE html>
<html>
<body>

<p>You can preselect an option with the selected
attribute.</p>

<form action="action_page.php">
  <select name="cars">
    <option value="volvo">Volvo</option>
    <option value="saab">Saab</option>
    <option value="fiat" selected>Fiat</option>
    <option value="audi">Audi</option>
  </select>
  <br><br>
  <input type="submit">
</form>

</body>
</html>
```

You can preselect an option with the selected attribute.

Fiat ▾

Trimite

Element <textarea>: defineste un camp format din mai multe linii text

```
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php">
  <textarea name="message" rows="10"
cols="30">Descrieti serviciile
solicitate.</textarea>
  <br>
  <input type="submit">
</form>

</body>
</html>
```

Descrieti serviciile solicitate.

Trimite

Completare text in formular

Descrieti serviciile solicitate.

Servicii web:
-email
-agent interfata
-administrare web

Trimite

Raspuns dupa click pe "Trimite"

```
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php">
  <textarea name="message" rows="10"
cols="30">Descrieti serviciile
solicitate.</textarea>
  <br>
  <input type="submit">
</form>

</body>
</html>
```

Your input was received as:

message=Descrieti serviciile solicitate. Servicii web: -email -agent interfata -administrare web

The server has processed your input and returned this answer.

Note: The HTML tutorial will not teach you how servers are processing input. Processing input is explained in our PHP and ASP tutorials.
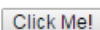
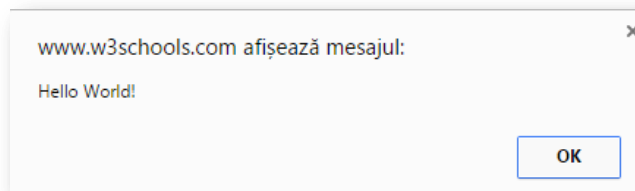## Element <button>: defineste un buton actionat cu click

```
<!DOCTYPE html>
<html>
<body>

<button type="button" onclick="alert('Hello World!')">Click Me!
</button>

</body>
</html>
```

Click Me!

Raspuns dupa click pe butonul "Click Me!": afisarea unei ferestre pop-up

www.w3schools.com afișează mesajul:

Hello World!

OK

Elemente noi HTML 5:

❑ **<datalist>:** specifica o lista de optiuni predefinite pentru un element <input>

```
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php">
  <input list="browsers" name="browser">
  <datalist id="browsers">
    <option value="Internet Explorer">
    <option value="Firefox">
    <option value="Chrome">
    <option value="Opera">
    <option value="Safari">
  </datalist>
  <input type="submit">
</form>

<p><b>Note:</b> The datalist tag is not supported in
Safari or IE9 (and earlier).</p>

</body>
</html>
```
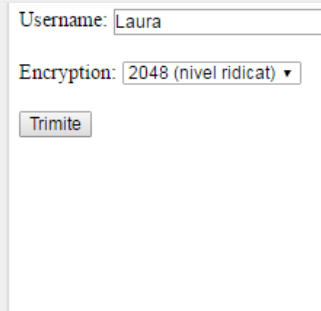
Trimite

Internet Explorer
Firefox
Chrome
Opera
Safari

...ot supported in Safari or IE9 (and

Raspuns la selectarea "Chrome"

Your input was received as:

browser=Chrome

The server has processed your input and returned this answer.

Note: The HTML tutorial will not teach you how servers are processing input. Processing input is explained in our PHP and ASP tutorials.
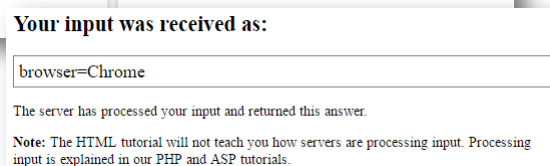
Elemente noi HTML 5:

❑ **<keygen>:** ofera posibilitatea de a autentifica utilizatorii specificand un camp cu o pereche de chei(una privata memorata local si una publica trimisa la server)

```
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php">
  Username: <input type="text" name="user">
  <br><br>
  Encryption: <keygen name="security">
  <br><br>
  <input type="submit">
</form>

</body>
</html>
```

Username: Laura

Encryption: 2048 (nivel ridicat) ▾

Trimite

Elemente noi HTML 5:

❑ **<output>:** ofera rezultatul unui calcul al unei expresii

```
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php"
oninput="x.value=parseInt(a.value)+parseInt(b.value)">
  0
  <input type="range" id="a" name="a" value="50">
  100 +
  <input type="number" id="b" name="b" value="50">
  =
  <output name="x" for="a b"></output>
  <br><br>
  <input type="submit">
</form>

</body>
</html>
```

0 ——[ ]—— 100 + 50 = 91

Trimite

Tipuri de elemente <input>:

❑ **type text :** defineste input o linie de text

```
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php">
First name:<br>
<input type="text"
name="firstname">
<br>
Last name:<br>
<input type="text" name="lastname">
<br><br>
<input type="submit">
</form>

<p>Note that the form itself is not
visible.</p>
<p>Also note that the default width
of a text field is 20 characters.
</p>

</body>
</html>
```

First name:

Last name:

[Trimite]

Note that the form itself is not visible.

Also note that the default width of a text field is 20 characters.

Tipuri de elemente <input>:

❑ **type password:** defineste input o parola

```
<!DOCTYPE html>
<html>
<body>

<form action="">
User name:<br>
<input type="text" name="userid">
<br>
User password:<br>
<input type="password" name="psw">
</form>

<p>The characters in a password
field are masked (shown as asterisks
or circles).</p>

</body>
</html>
```

User name:

User password:

The characters in a password field are masked (shown as asterisks or circles).

Tipuri de elemente <input>:

❑ **type Submit:** defineste un buton pentru trimiterea unui formular catre un form-handler.

```
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php">
First name:<br>
<input type="text" name="firstname" value="Pop">
<br>
Last name:<br>
<input type="text" name="lastname" value="Anca">
<br><br>
<input type="submit" value="Submit">
</form>

<p>If you click "Submit", the form-data will be
sent to a page called "action_page.php".</p>

</body>
</html>
```

First name:
Pop
Last name:
Anca

Submit

If you click "Submit", the form-data will be sent to a page called "action_page.php".

Raspuns dupa click Submit

Your input was received as:

firstname=Pop&lastname=Anca

The server has processed your input and returned this answer.

Tipuri de elemente <input>:

❑ **type Reset:** reseteaza toate valorile formularului la valorile implicite

```
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php">
First name:<br>
<input type="text" name="firstname"
value="Popa">
<br>
Last name:<br>
<input type="text" name="lastname"
value="Anca">
<br><br>
<input type="submit" value="Submit">
<input type="reset">
</form>

<p>If you change the input values and then
click the "Reset" button, the form-data will
be reset to the default values.</p>

</body>
</html>
```

First name:
Popa
Last name:
Anca

Submit   Resetează

If you change the input values and then click the "Reset" button, the form-data will be reset to the default values.

Dca schimb datele

First name:
Goga
Last name:
Mircea

Submit   Resetează

Raspuns dupa click Reseteaza:

First name:
Popa
Last name:
Anca

Submit   Resetează

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Tipuri de elemente <input>:

❑ **type Radio:** defineste un buton tip Radio
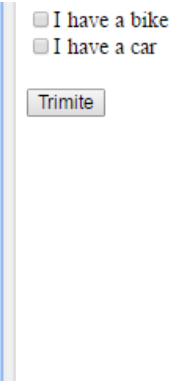
```html
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php">
  <input type="radio" name="gender"
value="male" checked> Male<br>
  <input type="radio" name="gender"
value="female"> Female<br>
  <input type="radio" name="gender"
value="other"> Other<br><br>
  <input type="submit">
</form>

</body>
</html>
```

- ⦿ Male
- ○ Female
- ○ Other

[Trimite]

Tipuri de elemente <input>:

❑ **type CheckBox:** defineste un buton tip CheckBox

```html
<!DOCTYPE html>
<html>
<body>

<form action="action_page.php">
<input type="checkbox" name="vehicle1"
value="Bike">I have a bike
<br>
<input type="checkbox" name="vehicle2"
value="Car">I have a car
<br><br>
<input type="submit">
</form>

</body>
</html>
```

- ☐ I have a bike
- ☐ I have a car

[Trimite]

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Tipuri de elemente <input>:

❑ **type Button:** defineste un buton

```
<!DOCTYPE html>
<html>
<body>

<input type="button" onclick="alert('Hello
World!')" value="Click Me!">

</body>
</html>
```

Click Me!

Alte tipuri noi <input> in HTML 5:

- color
- date
- datetime
- datetime-local
- email
- month
- number
- range
- search
- tel
- time
- url
- week

Tipuri de elemente <input>:

❑ **type number:** defineste un camp de tip numeric

```
<!DOCTYPE html>
<html>
<body>

<p>Numeric restrictions will apply in the
input field:</p>

<form action="action_page.php">
  Quantity (between 1 and 5):
  <input type="number" name="quantity"
min="1" max="5">
  <input type="submit">
</form>

<p><b>Note:</b> type="number" is not
supported in IE9 and earlier.</p>

</body>
</html>
```

Numeric restrictions will apply in the input field:

Quantity (between 1 and 5): [2] [Trimite]

Note: type="number" is not supported in IE9 and earlier.

Restricii pentru elementele <input>:

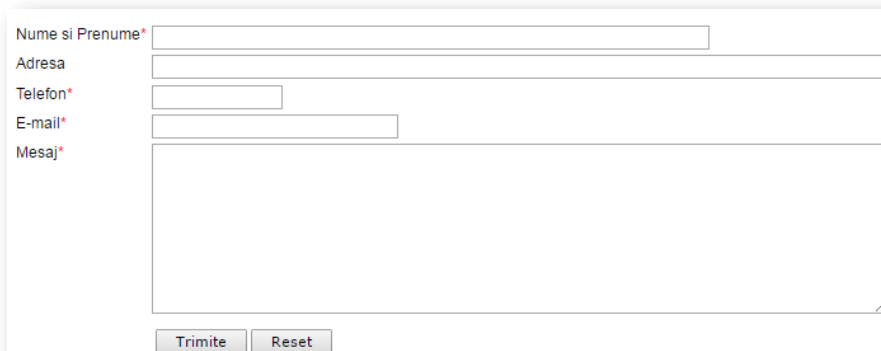| Attribute	Description
disabled	Specifies that an input field should be disabled
max	Specifies the maximum value for an input field
maxlength	Specifies the maximum number of character for an input field
min	Specifies the minimum value for an input field
pattern	Specifies a regular expression to check the input value against
readonly	Specifies that an input field is read only (cannot be changed)
required	Specifies that an input field is required (must be filled out)
size	Specifies the width (in characters) of an input field
step	Specifies the legal number intervals for an input field
value	Specifies the default value for an input field

Restricii pentru elementele <input>:

Attribute		Description
disabled		Specifies that an input field should be disabled
max	5	Specifies the maximum value for an input field
maxlength		Specifies the maximum number of character for an input field
min	5	Specifies the minimum value for an input field
pattern	5	Specifies a regular expression to check the input value against
readonly		Specifies that an input field is read only (cannot be changed)
required	5	Specifies that an input field is required (must be filled out)
size		Specifies the width (in characters) of an input field
step	5	Specifies the legal number intervals for an input field
value		Specifies the default value for an input field

Aplicatii interfete grafice tip formulare

Aplicatia 1: Creati o interfata grafica de tip formular on line utilizand HTML5 si CSS, care sa aiba designul de mai jos si campurile specificate :

Nume si Prenume*
Adresa
Telefon*
E-mail*
Mesaj*

Trimite   Reset

Aplicatii interfete grafice tip formulare

Aplicatia 2: Realizati un formular on line, utilizand unul dintre link-urile de mai jos:

- https://www.google.com/drive/ (formulare on line)
- http://www.formulareonline.ro/ (formular de contact, chestionar, formular de comanda)
- http://smartworks.3x.ro/cv/index.php (CV)
- http://www.surveymonkey.com (chestionare)
- http://freeonlinesurveys.com/previewsurvey.asp#0 (chestionare)
- http://www.smart-survey.co.uk/sample-surveys.aspx (chestionare)