Web Engineering

HTML Forms

The <form> Element

- The <form> element is a container for different types of input elements, such as: text fields, checkboxes, radio buttons, submit buttons, etc.

- <form>

  .

  form elements

  .

  </form>

Example: Name, Phone, Email

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

<h2>Form</h2>

<form action="result.php" method="GET">
<div>
  <label for="name">Name:</label>
  <input type="text" id="name" name="name" required>
</div>
<br/>
<div>
  <label for="phone">Phone:</label>
   <input type="tel" id="phone" name="phone" placeholder="123-45-678"
pattern="[0-9]{3}-[0-9]{2}-[0-9]{3}" required><br/>
</div>
<br/>
<div>
  <label for="email">Email:</label>
  <input type="email" id="email" name="email"  required>
  </div>
<br/>
<div>
  <button type="reset">Reset</button>
  <button type="submit">Submit</button>
  </div>
</form>
</body>
```

Form

Name: [_____]

Phone: [123-45-678]

Email: [_____]

[Reset] [Submit]

Form

Name: [_____]

Please fill out this field.

Phone:

Email: [_____]

[Reset] [Submit]

Password, Number

```html
<div>
  <label for="email">Email:</label>
  <input type="email" id="email" name="email"  required>
  </div>
<br/>
  <div>
  <label for="password">Password:</label>
  <input type="password" id="password" name="password" required>
</div>
<br/>
 <div>
 <label for="age">Age:</label>
  <input type="number" id="age" name="age" min="20" max="100" >
</div>
    <br/>
  <div>
  <button type="reset">Reset</button>
  <button type="submit">Submit</button>
  </div>
</form>
</body>
</html>
```

Form

Name: [   ]

Phone: [   ]

Email: [   ]

Password: [●●●●●●●●   ]

Age: [⌄]

[Reset] [Submit]

Radio and Checkbox

```html
<div>
Gender:
 <input type="radio" id="female" name="gender" value="female">
 <label for="female">Female</label>
 <input type="radio" id="Male" name="gender" value="male">
 <label for="male">Male</label><br>
 </div>
  <br/>
  <div>
    Favourite Sports <br/>
 <input type="checkbox" id="cricket" name="cricket" value="cricket">
 <label for="cricket">Cricket</label><br>
 <input type="checkbox" id="football" name="football" value="football">
 <label for="football"> Football</label><br>
 <input type="checkbox" id="tennis" name="tennis" value="tennis">
 <label for="tennis">Tennis</label>
 </div>
  <br/>
 <div>
 <button type="reset">Reset</button>
 <button type="submit">Submit</button>
 </div>
</form>
```

Form

Name: [   ]

Phone: [   ]

Email: [   ]

Password: [   ]

Age: [   ]

Gender: ○ Female ○ Male

Favourite Sports
☐ Cricket
☐ Football
☐ Tennis

[Reset] [Submit]

Date

```
<div>
 <label for="birthday">Birthday:</label>
<input type="date" id="birthday" name="birthday">
<div>
 <br/>
<button type="reset">Reset</button>
<button type="submit">Submit</button>
</div>
```

Form

Name:

Phone:

Email:

Password:

Age:

Gender:

Favourite
☐ Cricke
☐ Footba
☐ Tennis

July 2023 ⌄

Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Clear

Birthday: 07 / 19 / 2023

Reset Submit

File

```
<div>
<label for="myfile">Select your picture:</label>
<input type="file" id="myfile" name="myfile"><br>
</div>
<br />
```

Form

Name: [_____]

Phone: [123-45-678]

Email: [_____]

Password: [_____]

Age: [_____]

Gender: ○ Female ○ Male

Favourite Sports
☐ Cricket
☐ Football
☐ Tennis

Birthday: [mm / dd / yyyy 📅]

Select your picture: [Browse...] No file selected.

[Reset] [Submit]

Select

```html
<div>
 <label for="cars">Choose a car:</label>
<select id="cars" name="cars">
  <option value="civic">Civic</option>
  <option value="city">City</option>
  <option value="alto">Alto</option>
  <option value="audi">Audi</option>
</select>
</div>
```

Phone: `123-45-678`

Email:

Password:

Age:

Gender: ○ Female ○ Male

Favourite Sports
☐ Cricket
☐ Football
☐ Tennis

Birthday: `mm / dd / yyyy`

Select your picture: Browse... No file selected.

Choose a car: Civic ∨

Reset   Submit

Civic
City
Alto
Audi

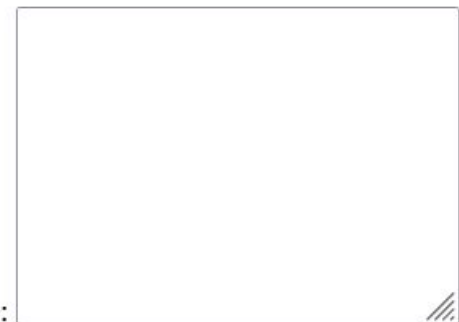# Text area

```
<div>
 Write a message:
 <textarea name="message" rows="10" cols="30"></textarea>
</div>
<br/>
```

Select your picture: [Browse...] No file selected.

Choose a car: [Civic ▾]

Write a message: [   ]

[Reset] [Submit]

HTML Form Elements

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

Code

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

- `<h2>Form</h2>`

- `<form action="result.php" method="GET">`
- `<div>`
- `  <label for="name">Name:</label>`
- `  <input type="text" id="name" name="name" required>`
- `</div>`
- `<br/>`
- `<div>`
- `  <label for="phone">Phone:</label>`
- `   <input type="tel" id="phone" name="phone" placeholder="123-45-678" pattern="[0-9]{3}-[0-9]{2}-[0-9]{3}" required><br/>`
- `</div>`
- `<br/>`
- `<div>`
- `  <label for="email">Email:</label>`
- `  <input type="email" id="email" name="email"  required>`
- `   </div>`

Code

```html
<br/>
<div>
 <label for="password">Password:</label>
 <input type="password" id="password" name="password" required>
</div>
<br/>
 <div>
 <label for="age">Age:</label>
  <input type="number" id="age" name="age" min="20" max="100" >
</div>
  <br/>
 <div>
 Gender:
 <input type="radio" id="female" name="gender" value="female">
 <label for="female">Female</label>
 <input type="radio" id="Male" name="gender" value="male">
 <label for="male">Male</label><br>
 </div>
<br/>
< <br/>
 <div>
 Favourite Sports <br/>
 <input type="checkbox" id="cricket" name="cricket" value="cricket">
 <label for="cricket">Cricket</label><br>
 <input type="checkbox" id="football" name="football" value="football">
 <label for="football"> Football</label><br>
 <input type="checkbox" id="tennis" name="tennis" value="tennis">
 <label for="tennis">Tennis</label>
 </div>
 <br/>
  <div>
```

Code

- <label for="birthday">Birthday:</label>
- <input type="date" id="birthday" name="birthday">
- </div>
-
- <div>
- <label for="myfile">Select your picture:</label>
- <input type="file" id="myfile" name="myfile">
- </div>
-
- <div>
- <label for="cars">Choose a car:</label>
- <select id="cars" name="cars">
- <option value="civic">Civic</option>
- <option value="city">City</option>
- <option value="alto">Alto</option>
- <option value="audi">Audi</option>
- </select>
- </div>
-
- <div>
- Write a message:
- <textarea name="message" rows="10" cols="30"></textarea>
- </div>
-
- <div>
- <button type="reset">Reset</button>
- <button type="submit">Submit</button>
- </div>
-

- </form>
- </body>
- </html>

Form

Form

Name: [   ]

Phone: [123-45-678   ]

Email: [   ]

Password: [   ]

Age: [⌃⌄]

Gender: ○ Female ○ Male

Favourite Sports
☐ Cricket
☐ Football
☐ Tennis

Birthday: [mm / dd / yyyy 📅]

Select your picture: [Browse...] No file selected.

Choose a car: [Civic ⌄]

Write a message: [   ]

[Reset] [Submit]

HTML 5

- New available types of form controls include dates and times, email, url, search, number, range, tel and color.

References

- https://www.w3schools.com/html/html_forms.asp

- https://www.youtube.com/watch?v=fNcJuPIZ2WE

THANK YOU