HTML Forms

• An HTML form is used to collect user input. The user input is most often sent to a server for processing.

1. The <form> Element

• The HTML <form> element is used to create an HTML form for user input:

```
<form>
.
form elements
.
</form>
```

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

2. The <input> Element

- The HTML <input> element is the most used form element.
- An <input> element can be displayed in many ways, depending on the type attribute.
- Here are some examples:

| Туре | Description |
|--------------------------|--|
| <input type="text"/> | Displays a single-line text input field |
| <input type="radio"/> | Displays a radio button (for selecting one of many choices) |
| <input type="checkbox"/> | Displays a checkbox (for selecting zero or more of many choices) |
| <input type="submit"/> | Displays a submit button (for submitting the form) |
| <input type="button"/> | Displays a clickable button |

3. Text Fields

• The <input type="text"> defines a single-line input field for text input.

Example:

```
<!DOCTYPE html>
<html>
<body>
<h2>Text input fields</h2>
<form>
<label for="fname">First name:</label><br>
<input type="text" id="fname" name="fname" value="John"><br>
<label for="lname">Last name:</label><br>
<input type="text" id="lname" name="lname" value="Doe"></form>
</form>
Note that the form itself is not visible.
Also note that the default width of text input fields is 20 characters.
</body>
</body>
</html>
```

Text input fields

| First name: | |
|-------------|--|
| | |
| Last name: | |
| | |

Note that the form itself is not visible.

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

4. The <label> Element

- Notice the use of the <label> element in the example above.
- The <a href=
- The
- The
- The for attribute of the tag should be equal to the id attribute of the <input> element to bind them together."

5. Radio Buttons

- The <input type="radio"> defines a radio button.
- Radio buttons let a user select ONE of a limited number of choices.

Example:

6. Checkboxes

- The <input type="checkbox"> defines a checkbox.
- Checkboxes let a user select ZERO or MORE options of a limited number of choices.

Example:

7. The Submit Button

- The <input type="submit"> defines a button for submitting the form data to a form-handler.
- The form-handler is typically a file on the server with a script for processing input data.
- The form-handler is specified in the form's action attribute.

Example:

```
<form action="/action_page.php">
  <label for="fname">First name:</label><br>
  <input type="text" id="fname" name="fname" value="John"><br>
  <label for="lname">Last name:</label><br>
  <input type="text" id="lname" name="lname" value="Doe"><br>
  <input type="submit" value="Submit">
  </form>
```

This is how the HTML code above will be displayed in a browser:

| First name: | |
|-------------|--|
| John | |
| Last name: | |
| Doe | |
| | |
| Submit | |

The Name Attribute for <input>

- Notice that each input field must have a name attribute to be submitted.
- If the name attribute is omitted, the value of the input field will not be sent at all.

HTML Input Types

- <input type="button"><input type="checkbox"><input type="color">
- <input type="date">
- <input type=''datetime-local''>
- <input type="email">
- <input type="file">
- <input type="hidden">
- <input type="image">
- <input type="month">
- <input type="number">
- <input type="password">
- <input type="radio"><input type="range">
- <input type="reset">
- <input type="search">
- <input type="submit">
- <input type="tel">
- <input type="text">
- <input type="time">
- <input type="url">
- <input type="week">

Examples: https://www.w3schools.com/html/html_form_input_types.asp

The HTML <form> Elements

The HTML < form > element can contain one or more of the following form elements:

- <input>
- <label>
- <select>
- <textarea>
- <button>
- <fieldset>
- <legend>
- <datalist>
- <output>
- <option>
- <optgroup>

Examples: https://www.w3schools.com/html/html_form_elements.asp