Form

The <form> tag is a container for various input elements that allow users to enter and submit data to a server. It's one of the most important elements in HTML for creating interactive web pages.

form tag <form></form>

- Block element
- Opening & Closing Tag

Main attributes Form
- action : Specifies the URL (server endpoint) where the form data will be sent. [<form action="/submit.php"> </form>]
- method : Defines the HTTP method used to send form data. [<form method="post" > </form>]
    - GET → data is appended to the URL (visible in the address bar).
    - POST → data is sent in the body (more secure, used for login/registration).
- novalidate : Disables HTML5 form validation. [<form novalidate></form>]

Input & Label

Input :
The <input> element in HTML is used to create interactive controls in web forms to accept data from the user.
- Self Closing Tag
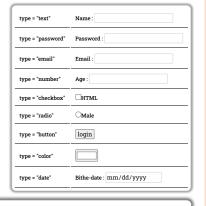- Inline element

Input has a several attributes :
- type : Specifies the type of input (e.g., text, password, email, number, checkbox, radio).
- <input type="text">
- you can add attributes like class or id

label :
In HTML, the <label> element is used to define a label for an input element, helping users understand what the input is for. It also improves accessibility and usability, especially for screen readers.
- for : to associate the label with a specific form control (like <input>select>, etc.). This improves accessibility and usability.
- for linked with input id -> for="username" → matches the id="username" of the input element.
- Opening and Closing Tag
- Inline element

Input Attributes

Placeholder - Hidden - Disabled - Value - Required - Autofocus - Maxlength - Minlength:

Placeholder : to display a short hint or example text inside the field.

Hidden : used to hide an element from the page.

Disabled : used to make form elements uneditable and unclickable.

Value : used to specify the initial value of a form element like <input>, <button>.

Required : used to make form fields mandatory.

Autofocus : used to automatically place the cursor inside a specific form field as soon as the page loads.

Maxlength : used to set the maximum number of characters a user can enter in an <input> or <textarea> field.

Minlength : used to set the minimum number of characters that the user must enter in an <input> or <textarea> field before the form can be submitted.

readonly : you can add to most input types to make them non-editable while still allowing the user to focus and copy the text.

Submeit - Reset - button

The submit type is used with the <input> element to send the form data to the server.

A reset type is used to clear all the input fields in a form and return them to their default values.

button :

- Openeing and Closing Tag
- Inline Element
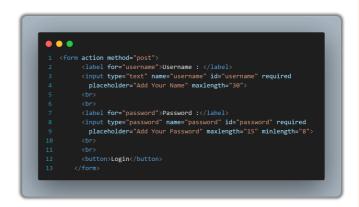- The onclick attribute is used to run JavaScript code when the user clicks an element, like a button.

`<input type="submit" name = "" id ="">`	Submit
`<input type="reset" name="" id="">`	Reset
`<button onclick="alert('Hello!')">Click Me</button>`	Click Me

Hidden & disabel

Feature	hidden	disabled
Visible?	❌ No	✅ Yes (but grayed out)
User interaction	❌ Not possible	❌ Not possible
In the DOM?	✅ Yes	✅ Yes
Sent in form?	✅ Yes (if shown later)	❌ No

Example

Username : [Add Your Name]

Password : [Add Your Password]

[Login]

```
1   <form action method="post">
2       <label for="username">Username : </label>
3       <input type="text" name="username" id="username" required
4         placeholder="Add Your Name" maxlength="30">
5       <br>
6       <br>
7       <label for="password">Password :</label>
8       <input type="password" name="password" id="password" required
9         placeholder="Add Your Password" maxlength="15" minlength="8">
10      <br>
11      <br>
12      <button>Login</button>
13  </form>
```

Note : Chang Methode to get and see URL

Assignment

Student Registration Form

Fill in this form to register

First Name [Enter your first name]

Last Name [Enter your last name]

E-mail [Enter your e-mail]

Date of Birth [dd - mm - yyyy]

Set Username [Set Username]

Set Password [Set password]