

HTML Forms : By Gagan Baghel

HTML forms are crucial for collecting and submitting user input to a server.

1. `<form>` Tag

The `<form>` tag defines the start of a form in HTML and holds all form elements.

Attributes of `<form>` :

1. `action` : Specifies the destination where form data should be submitted (URL of the server-side script).

- Example:

```
<form action="/submit-form">...</form>
```

2. `method` : Determines how form data should be submitted (via HTTP methods like `GET` or `POST`).

- Values:

- `GET` : Appends data to the URL (for non-sensitive data).
- `POST` : Sends data securely in the HTTP body.

- Example:

```
<form method="POST">...</form>
```

3. `enctype` : Specifies how the form data should be encoded when sent to the server.

- Values:

- `application/x-www-form-urlencoded` (default): Encodes data in key-value pairs.
- `multipart/form-data` : Used for uploading files.

- `text/plain` : Plain text encoding.
- Example:

```
<form enctype="multipart/form-data">...</form>
```

4. `target` : Determines where to display the response after form submission.

- Values:
 - `_self` (default): Displays the response in the same frame.
 - `_blank` : Displays the response in a new tab or window.
 - `_parent` : Displays the response in the parent frame.
 - `_top` : Displays the response in the full window.
- Example:

```
<form target="_blank">...</form>
```

5. `autocomplete` : Specifies whether browser autocomplete is enabled for the form.

- Values: `on` (default) or `off`.
- Example:

```
<form autocomplete="off">...</form>
```

6. `novalidate` : Disables HTML5 form validation for user input when present.

- Example:

```
<form novalidate>...</form>
```

<input> Element in HTML Form :

All 22 **type** Attribute Values with Additional Attributes

1. `text` (Single-line text input)

- Used for general text input.
- Supports `maxlength`, `placeholder`, and `required`.

```
<input type="text" name="username" placeholder="Enter your username" ma  
xlength="20" required>
```

Explanation:

- `placeholder`: Gives a hint to the user.
- `maxlength="20"`: Limits input to 20 characters.
- `required`: Ensures the field cannot be left empty.

2. `password` (Masked password input)

- Used for passwords, where input is hidden.

```
<input type="password" name="user_password" minlength="6" maxlength  
="16" required>
```

Explanation:

- `minlength="6"`: Minimum length is 6 characters.
- `maxlength="16"`: Maximum length is 16 characters.
- `required`: User must enter a password before submitting.

3. `email` (Email input with validation)

- Ensures correct email format.

```
<input type="email" name="email" placeholder="example@domain.com" required>
```

✓ Explanation:

- Automatically validates email format.
- `required`: Cannot be empty.

4. **number** (Numeric input)

- Only allows numbers.

```
<input type="number" name="age" min="18" max="99" step="1" required>
```

✓ Explanation:

- `min="18"`, `max="99"`: Limits age between 18 and 99.
- `step="1"`: Ensures only whole numbers are entered.

5. **radio** (Single-choice selection)

- Used for choosing one option from multiple.

```
<input type="radio" name="gender" value="male" required> Male  
<input type="radio" name="gender" value="female"> Female
```

✓ Explanation:

- `name="gender"`: Groups the options together.
- `required`: Ensures one option is selected.

6. **checkbox** (Multiple-choice selection)

- Allows selecting multiple options.

```
<input type="checkbox" name="subscribe" value="newsletter" checked> Su  
bscribe
```

✓ Explanation:

- `checked` : Preselects the checkbox.

7. `submit` (Form submission button)

- Triggers form submission.

```
<input type="submit" value="Submit Form">
```

✓ Explanation:

- `value="Submit Form"` : Changes button text.

8. `reset` (Resets form fields)

- Clears all form inputs.

```
<input type="reset" value="Reset Form">
```

9. `file` (File upload)

- Used for uploading files.

```
<input type="file" name="profile_picture" accept="image/png, image/jpeg" re  
quired>
```

✓ Explanation:

- `accept="image/png, image/jpeg"` : Restricts file types to PNG and JPEG.

10. `date` (Date picker)

- Select a date.

```
<input type="date" name="dob" min="2000-01-01" max="2025-12-31" required>
```

✓ Explanation:

- `min` & `max`: Restrict date range.

11. **datetime-local** (Date + Time input)

- Selects a date and time.

```
<input type="datetime-local" name="appointment" required>
```

12. **month** (Selects month & year)

- Picks a month.

```
<input type="month" name="birth_month">
```

13. **week** (Selects week)

- Picks a week of the year.

```
<input type="week" name="week_of_year">
```

14. **time** (Time picker)

- Selects a time.

```
<input type="time" name="meeting_time">
```

15. **range** (Slider input)

- Selects a numeric value within a range.

```
<input type="range" name="volume" min="0" max="100" step="10">
```

✓ Explanation:

- `step="10"` : Moves the slider in steps of 10.

16. `color` (Color picker)

- Opens a color selector.

```
<input type="color" name="fav_color">
```

17. `search` (Search field)

- For search bars.

```
<input type="search" name="query" placeholder="Search..." required>
```

18. `tel` (Phone number input)

- Used for entering a phone number.

```
<input type="tel" name="phone" pattern="[0-9]{10}" placeholder="1234567890" required>
```

✓ Explanation:

- `pattern="[0-9]{10}"` : Restricts input to exactly 10 digits.

19. `url` (Website URL input)

- Requires a valid URL format.

```
<input type="url" name="website" placeholder="https://example.com" required>
```

20. **hidden** (Invisible input)

- Stores hidden data.

```
<input type="hidden" name="user_id" value="12345">
```

✓ Explanation:

- Not visible to users but sent with form submission.

21. **image** (Image-based submit button)

- Uses an image as a submit button.

```
<input type="image" src="submit_button.png" alt="Submit">
```

22. **button** (Clickable button)

- A general button (requires JavaScript for action).

```
<input type="button" value="Click Me" onclick="alert('Button Clicked!')">
```

Key Attributes Used

Attribute	Description
<code>name</code>	Identifies the input field when submitted.
<code>value</code>	Sets the default value.
<code>placeholder</code>	Shows a hint inside the field.
<code>required</code>	Makes the field mandatory.
<code>min</code> & <code>max</code>	Sets limits for number, date, and range.
<code>step</code>	Defines step intervals for number-based inputs.
<code>maxlength</code>	Sets max length for text input.
<code>pattern</code>	Defines validation rules using regex.

<code>readonly</code>	Prevents editing but allows copying.
<code>disabled</code>	Makes the input unclickable.

1. `<label>` Tag

The `<label>` tag defines a label for an input element, enhancing accessibility and usability.

Attributes of `<label>`:

- `for` : Associates the label with a specific input element by its `id`.
 - Example:

```
<label for="email">Email:</label>
<input type="email" id="email">
```

Inline Example:

```
<label>Email: <input type="email"></label>
```

1. `<textarea>` Tag

The `<textarea>` tag is used for multi-line text input.

Attributes of `<textarea>`:

- `rows` : Specifies the number of visible text rows.
 - Example:

```
<textarea rows="4" cols="50"></textarea>
```

- `cols` : Specifies the visible number of columns (width).

- Example:

```
<textarea rows="4" cols="50"></textarea>
```

- `maxlength`: Limits the number of characters that can be entered.

- Example:

```
<textarea maxlength="200"></textarea>
```

1. `<select>` and `<option>` Tags

The `<select>` tag creates a dropdown list. The `<option>` tag defines each option inside the dropdown.

Attributes of `<select>`:

- `name`: Specifies the name of the dropdown.

- Example:

```
<select name="cars">...</select>
```

- `multiple`: Allows users to select multiple options.

- Example:

```
<select name="cars" multiple>...</select>
```

- `size`: Defines the number of visible options in the dropdown.

- Example:

```
<select name="cars" size="4">...</select>
```

Attributes of `<option>`:

- `value` : Defines the value submitted with the form for that option.

- Example:

```
<option value="volvo">Volvo</option>
```

- `selected` : Sets the option as the default selected value.

- Example:

```
<option value="volvo" selected>Volvo</option>
```

1. `<button>` Tag

The `<button>` tag defines a clickable button that can submit or reset the form.

Attributes of `<button>` :

- `type` : Specifies the type of button.

- Values: `submit` , `reset` , `button`

- Example:

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

1. `<fieldset>` and `<legend>` Tags

The `<fieldset>` tag groups related form elements, and the `<legend>` tag defines a caption for the `<fieldset>` .

Attributes of `<fieldset>` :

- `disabled` : Disables all form controls inside the `<fieldset>` .

- Example:

```
<fieldset disabled>...</fieldset>
```

Example:

```
<fieldset>
  <legend>Personal Information</legend>
  <label for="name">Name:</label>
  <input type="text" id="name">
</fieldset>
```

Task's

Name:

Contact :

E-mail :

Skills : HTML CSS JS REACT

Instructor ID :

No file chosen

Signature : No file chosen

Travel Info

Travel Origin:

Travel Destination:

Country: Select Country

Travel Package:

Total Days:

Travel Mode: Select Mode

Book Your Dream Room

Guest Contact Information

Title :	<input type="select" value="Select"/>	Full Name :	<input type="text" value="Full Name Enter Here"/>
Phone Number :	<input type="text" value="9124567890"/>	E-mail :	<input type="text"/>
Date of Birth :	<input type="text" value="dd-mm-yyyy"/>	Customer Code :	<input type="text"/>
Address	<input type="text" value="Street Address"/>	<input type="text" value="Street Address Line 2"/>	<input type="text" value="Landmark"/>

Reservation Details

Arrival Date :	<input type="text" value="dd-mm-yyyy"/>	Departure Date :	<input type="text" value="dd-mm-yyyy"/>
Number of Adult's :	<input type="text"/>	Number of Children's :	<input type="text"/>
Room Type:	<input type="select" value="Please Select"/>	Room Number:	<input type="text"/>
Extra Bed:	<input type="radio"/> Yes <input type="radio"/> No	<input type="text" value="Type here..."/>	
Any additional request:	<input type="text"/>		
<input type="button" value="Submit"/>			

