Form

A list of some common HTML tags, elements, and attributes that can be used within a <form> element to create interactive web forms:

Tags and Elements within a <form>:

- 1. <input>: Used for various types of input fields, such as text, password, radio buttons, checkboxes, etc.
- 2. <textarea>: Used for multi-line text input.
- 3. <select>: Used for creating dropdown lists.
 - <option>: Defines an option within a <select> dropdown.
- 4. <button>: Used to create buttons within the form.
 - <button> can contain text or other elements, such as images or icons.
- 5. <label>: Used to provide labels for form elements.
- 6. <fieldset>: Used to group related form elements.
 - <legend>: Provides a title for the <fieldset>.
- 7. <datalist>: Used to create a list of predefined options for an <input> field.
 - o <option>: Defines an option within a <datalist>.

1. <input> Element:

The <input> element is one of the most versatile form elements and can be used for various types of input fields.

Examples:

• Text Input:

<input type="text" name="username" placeholder="Enter
your username" required>

• Password Input:

```
<input type="password" name="password" placeholder="Enter
your password" required>
```

• Radio Buttons:

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

• Checkboxes:

```
<input type="checkbox" name="subscribe" value="yes">
Subscribe to newsletter
```

2. <textarea> Element:

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

Example:

```
<textarea name="feedback" placeholder="Enter your
feedback" rows="4" cols="50" required></textarea>
```

3. <select> Element:

The <select> element is used for creating dropdown lists.

Example:

```
<select name="country">
   <option value="usa">United States</option>
   <option value="canada">Canada</option>
   <option value="uk">United Kingdom</option>
</select>
```

4. <button> Element:

The **<button>** element is used to create buttons within the form. Example:

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

5. <label> Element:

The <label> element provides labels for form elements.

Example:

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

6. <fieldset> Element:

The <fieldset> element is used to group related form elements.

Example:

```
<fieldset>
  <legend>Contact Information</legend>
  <label for="name">Name:</label>
  <input type="text" id="name" name="name">
   <br>
  <label for="phone">Phone:</label>
  <input type="tel" id="phone" name="phone">
  </fieldset>
```

7. <datalist> Element:

The <datalist> element creates a list of predefined options for an <input> field.

Example:

```
<input type="text" list="colors" name="color">
  <datalist id="colors">
      <option value="Red">
      <option value="Green">
      <option value="Blue">
  </datalist>
```

Common Attributes for Form Elements:

- type: Specifies the type of input (e.g., "text," "password," "radio," "checkbox," etc.) for <input> elements.
- 2. name: Specifies the name of the form field, used to identify the data when the form is submitted.
- 3. value: Specifies the initial value for an input field.
- 4. placeholder: Provides a hint or example value for the input field.
- 5. required: Indicates that the input is required before submitting the form.
- 6. disabled: Disables the form field so it cannot be interacted with.
- 7. checked: Used with checkboxes and radio buttons to specify the default checked state.
- 8. multiple: Allows selecting multiple options in a <select> or <datalist> element.
- 9. maxlength: Specifies the maximum number of characters allowed in an input field.

- 10. min, max: Specifies the range of acceptable values for numeric input.
- 11. pattern: Specifies a regular expression pattern for input validation.
- 12. autofocus: Automatically focuses on the input field when the page loads.
- 13. id: Specifies a unique identifier for an element.
- 14. for: Specifies which form element a <label> is associated with.

```
<html>
<head>
 <title>Sample Form with Attributes</title>
<body>
<h2>Sample Form with Various Form Elements</h2>
<!-- Form with a POST method to submit data -->
<form action="/submit" method="post">
 <!-- Text Input -->
 <label for="username">Username:</label>
 <input type="text" id="username" name="username" placeholder="Enter your</pre>
username" required><br><br>
 <!-- Password Input -->
 <label for="password">Password:</label>
 <input type="password" id="password" name="password" placeholder="Enter your</pre>
password" required><br><br>
 <!-- Radio Buttons -->
 <label>Gender:</label>
 <input type="radio" name="gender" value="male" checked> Male
 <input type="radio" name="gender" value="female"> Female<br><br>
 <!-- Checkboxes -->
 <label>Interests:</label>
 <input type="checkbox" name="interests" value="sports"> Sports
 <input type="checkbox" name="interests" value="music"> Music<br><br>
 <!-- Textarea -->
```