# HTML Form Elements

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# HTML Form Elements

HTML provides several form elements that allow users to input data, make selections, and submit information to a server.

1. `<form>` :

   - The root element for creating a form.
   - It encapsulates all the form elements.

```html
<form action="/processPhotoUpload" method="POST">
    <!-- Form elements go here -->

</form>
```

2. `<input>` :

  ○ Used to create various types of input fields.

  ○ Common attributes include `type` , `name` , `id` , `value` , etc.

```
<input type="text" name="username" placeholder="Username">
```

3. `<textarea>` :

- Used for multiline text inputs.

- Useful for longer text input, such as comments.

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

4. `<select>` :

- ○ Creates a dropdown list for selecting options.
- ○ Contains one or more `<option>` elements.

```html
<select name="gender">
    <option value="male">Male</option>
    <option value="female">Female</option>
</select>
```

5. `<button>` :

- Creates a clickable button.
- Used for triggering form submission or other actions.

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

6. `<label>` :

  - ○ Associates a label with a form element.
  - ○ Improves accessibility and user experience.

```html
<label for="username">Username:</label>
<input type="text" name="username" id="username">
```

7. `<fieldset>` and `<legend>` :

- ○ `<fieldset>` groups related form elements.

- ○ `<legend>` provides a caption for the `<fieldset>` .

```html
<fieldset>
    <legend>Contact Information</legend>
    <!-- Form elements go here -->
</fieldset>
```

8. `<input type="radio">` and `<input type="checkbox">` :

- Used for radio buttons and checkboxes, respectively.

```html
<input type="radio" name="gender" value="male"> Male
<input type="radio" name="gender" value="female"> Female
<input type="checkbox" name="subscribe" id="subscribe"> Subscribe to newsletter
```

9. `<input type="file">` :

- Allows users to upload files.

```
<input type="file" name="fileUpload" id="fileUpload">
```

10. `<input type="submit">` and `<input type="reset">` :

- Submit and reset buttons for the form.

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

- button: The button is a clickable button

- submit: The button is a submit button (submits form-data)

- reset: The button is a reset button (resets the form-data to its initial values)