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# LESSON 3

# FORMS



# Basic Structure of an HTML Form

At the heart of every form is the <form> element. This tag acts as a container for all form-related elements. Here's a simple example:

```
<form action="/submit-form" method="post">  
  <label for="name">Name:</label>  
  <input type="text" id="name" name="name">  
  <input type="submit" value="Submit">  
</form>
```

# Form Elements

Forms can include various input elements like text fields, radio buttons, checkboxes, and more. Some commonly used elements include:

- **Text Input (<input type="text">):** Used for single-line text input.
- **Password Input (<input type="password">):** Masks the input to hide sensitive information.
- **Radio Buttons (<input type="radio">):** Allows users to select one option from a set.
- **Checkboxes (<input type="checkbox">):** Allows users to select multiple options from a set.
- **Submit Button (<input type="submit">):** Submits the form data to the server.

# Example with Multiple Input Types

Here's a more complex form example that includes text input, radio buttons, and checkboxes:

```
<form action="/submit-form" method="post">
  <label for="username">Username:</label>
  <input type="text" id="username" name="username">

  <label for="password">Password:</label>
  <input type="password" id="password" name="password">

  <p>Gender:</p>
  <input type="radio" id="male" name="gender" value="male">
  <label for="male">Male</label><br>
  <input type="radio" id="female" name="gender" value="female">
  <label for="female">Female</label><br>

  <p>Interests:</p>
  <input type="checkbox" id="coding" name="interest" value="coding">
  <label for="coding">Coding</label><br>
  <input type="checkbox" id="music" name="interest" value="music">
  <label for="music">Music</label><br>

  <input type="submit" value="Submit">
</form>
```

# Enhancing Forms with HTML5

HTML5 introduced several new input types that make form handling even more user-friendly and robust. Some notable examples are:

- **Email Input (<input type="email">):** Validates the email format.
- **URL Input (<input type="url">):** Validates the URL format.
- **Number Input (<input type="number">):** Allows only numeric input with optional min/max values.
- **Date Input (<input type="date">):** Provides a date picker interface.
- **Time Input (<input type="time">):** Provides a time picker interface.

# Example Using HTML5 Input Types

```
<form action="/submit-form" method="post">
  <label for="email">Email:</label>
  <input type="email" id="email" name="email">

  <label for="website">Website:</label>
  <input type="url" id="website" name="website">



  <label for="age">Age:</label>
  <input type="number" id="age">

  <label for="date">Date:</label>
  <input type="date" id="calendar">

  <label for="time">Time:</label>
  <input type="time" id="time">

  <input type="submit" value="Submit">
</form>
```

# FORM STYLING

```
}  
form {  
  max-width: 400px; /* WIDTH OF THE FORM*/  
  margin: 0 auto; /* MARGIN OF THE FORM*/  
  padding: 10px; /* PADDING OF THE FORM*/  
  border: 1px solid  #ccc; /* BORDER OF THE FORM*/  
  border-radius: 5px; /* CORNER OF THE FORM*/  
  background-color:  #f9f9f9; /* BACKGROUND COLOR OF THE FORM*/  
}
```