

# Date Entry Forms in HTML

Forms in HTML are used to **collect user input** and send it to a server for processing. Forms contain various input elements like text fields, checkboxes, radio buttons, submit buttons, etc.

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## 1. Basic Form Structure

A form is created using the `<form>` tag.

Example:

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

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

### Attributes of `<form>`

- **action** – Specifies the URL where form data is sent (e.g., "submit.php").
  - **method** – Defines how data is sent (**GET** or **POST**).
    - **GET** – Appends data to URL (e.g., `submit.php?name=John`).
    - **POST** – Sends data securely (preferred for sensitive data).
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## 2. Common Form Elements

### 1. Text Input Fields

- **Single-line input:**

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

- **Password field:**

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

- **Multiline text area:**

```
<label for="message">Message:</label>
<textarea id="message" name="message" rows="4" cols="30"></textarea>
```

## 2. Radio Buttons (Single Selection)

```
<label>Gender:</label>
<input type="radio" id="male" name="gender" value="male">
<label for="male">Male</label>

<input type="radio" id="female" name="gender" value="female">
<label for="female">Female</label>
```

## 3. Checkboxes (Multiple Selection)

```
<label>Hobbies:</label>
<input type="checkbox" id="reading" name="hobby" value="reading">
<label for="reading">Reading</label>

<input type="checkbox" id="sports" name="hobby" value="sports">
<label for="sports">Sports</label>
```

## 4. Dropdown (Select Menu)

```
<label for="country">Country:</label>
<select id="country" name="country">
  <option value="usa">USA</option>
  <option value="uk">UK</option>
  <option value="india">India</option>
</select>
```

## 5. Buttons

- **Submit Button:**

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

- **Reset Button:**

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

- **Button Element:**

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

### 3. HTML5 Input Types

HTML5 introduced new input types to improve user experience.

Input Type	Description	Example
email	Accepts only valid email addresses	<input type="email" name="email">
url	Accepts only valid URLs	<input type="url" name="website">
tel	Accepts phone numbers	<input type="tel" name="phone">
number	Accepts only numeric values	<input type="number" name="age" min="1" max="100">
date	Date picker	<input type="date" name="dob">
range	Slider for selecting a range	<input type="range" min="0" max="100">
color	Color picker	<input type="color" name="favcolor">
file	Upload files	<input type="file" name="document">

### 4. Advanced Form Features

#### 1. Placeholder

Shows hint text inside an input field.

```
<input type="text" placeholder="Enter your name">
```

#### 2. Required Field

Makes an input field mandatory.

```
<input type="text" required>
```

#### 3. Pattern Validation

Defines a pattern for input validation.

```
<input type="text" pattern="[A-Za-z]{3,}" title="Only letters allowed">
```

#### 4. Autofocus

Automatically focuses an input field when the page loads.

```
<input type="text" autofocus>
```

#### 5. Disabled and Readonly Fields

- **Disabled:** Cannot be edited or submitted.

```
<input type="text" value="Disabled" disabled>
```

- **Readonly:** Cannot be edited but will be submitted.

```
<input type="text" value="Readonly" readonly>
```

#### 6. Datalist (Predefined Options for Input)

```
<input list="browsers">
<datalist id="browsers">
  <option value="Chrome">
  <option value="Firefox">
  <option value="Safari">
</datalist>
```

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### 5. Example: Complete HTML Form

```
<form action="submit.php" method="post">
  <h2>Registration Form</h2>

  <label for="name">Full Name:</label>
  <input type="text" id="name" name="name" required><br><br>

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

  <label>Gender:</label>
  <input type="radio" name="gender" value="male"> Male
```

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

<label for="hobbies">Hobbies:</label>
<input type="checkbox" name="hobby" value="reading"> Reading
<input type="checkbox" name="hobby" value="sports"> Sports<br><br>

<label for="dob">Date of Birth:</label>
<input type="date" id="dob" name="dob"><br><br>

<label for="country">Country:</label>
<select id="country" name="country">
  <option value="usa">USA</option>
  <option value="uk">UK</option>
  <option value="india">India</option>
</select><br><br>

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

<label for="photo">Upload Photo:</label>
<input type="file" id="photo" name="photo"><br><br>

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

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## 6. Conclusion

HTML forms are essential for collecting user input. By combining different input types, attributes, and validation techniques, you can create **user-friendly and secure forms**.